



ANALYTICAL REPORT

| | |
|-----------------|---|
| Lab Number: | L1412645 |
| Client: | Cooperstown Environmental LLC 23 Main Street Andover, MA 01810-0814 |
| ATTN: | Richard Gang |
| Phone: | (978) 470-4755 |
| Project Name: | HOLYCROSS |
| Project Number: | Not Specified |
| Report Date: | 06/12/14 |

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Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: HOLYCROSS
Project Number: Not Specified

Lab Number: L1412645
Report Date: 06/12/14

| Alpha Sample ID | Client ID | Sample Location | Collection Date/Time |
|----------------------------|------------------|----------------------------|---------------------------------|
| L1412645-01 | WP-04 | WORCESTER, MA | 06/11/14 00:00 |
| L1412645-02 | WP-05 | WORCESTER, MA | 06/11/14 00:00 |
| L1412645-03 | WP-06 | WORCESTER, MA | 06/11/14 00:00 |
| L1412645-04 | WP-07 | WORCESTER, MA | 06/11/14 00:00 |
| L1412645-05 | WP-08 | WORCESTER, MA | 06/11/14 00:00 |

Project Name: HOLYCROSS

Lab Number: L1412645

Project Number: Not Specified

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MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

| | | |
|--|---|-----|
| An affirmative response to questions A through F is required for "Presumptive Certainty" status | | |
| A | Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times? | YES |
| B | Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed? | YES |
| C | Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances? | YES |
| D | Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?" | YES |
| E a. | VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). | N/A |
| E b. | APH and TO-15 Methods only: Was the complete analyte list reported for each method? | N/A |
| F | Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)? | YES |
| A response to questions G, H and I is required for "Presumptive Certainty" status | | |
| G | Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)? | YES |
| H | Were all QC performance standards specified in the CAM protocol(s) achieved? | YES |
| I | Were results reported for the complete analyte list specified in the selected CAM protocol(s)? | YES |
| For any questions answered "No", please refer to the case narrative section on the following page(s). | | |

Please note that sample matrix information is located in the Sample Results section of this report.



Project Name: HOLYCROSS
Project Number: Not Specified

Lab Number: L1412645
Report Date: 06/12/14

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: HOLYCROSS
Project Number: Not Specified

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Report Date: 06/12/14

Case Narrative (continued)


MCP Related Narratives

Sample Receipt

The samples were received at the laboratory above the required temperature range. The samples were transported to the laboratory in a cooler with ice and delivered directly from the sampling site.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

 Michelle M. Morris

Title: Technical Director/Representative

Date: 06/12/14

ORGANICS

PCBS

Project Name: HOLYCROSS**Lab Number:** L1412645**Project Number:** Not Specified**Report Date:** 06/12/14**SAMPLE RESULTS**

Lab ID: L1412645-01
Client ID: WP-04
Sample Location: WORCESTER, MA
Matrix: Wipe
Analytical Method: 97,8082A
Analytical Date: 06/12/14 09:52
Analyst: JT

Date Collected: 06/11/14 00:00
Date Received: 06/11/14
Field Prep: Not Specified
Extraction Method: EPA 3540C
Extraction Date: 06/11/14 14:35
Cleanup Method1: EPA 3665A
Cleanup Date1: 06/12/14
Cleanup Method2: EPA 3660B
Cleanup Date2: 06/12/14

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|--------|-------|-----|-----------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab | | | | | | | |
| Aroclor 1016 | ND | | ug Abs | 0.500 | -- | 1 | A |
| Aroclor 1221 | ND | | ug Abs | 0.500 | -- | 1 | A |
| Aroclor 1232 | ND | | ug Abs | 0.500 | -- | 1 | A |
| Aroclor 1242 | ND | | ug Abs | 0.500 | -- | 1 | A |
| Aroclor 1248 | ND | | ug Abs | 0.500 | -- | 1 | A |
| Aroclor 1254 | ND | | ug Abs | 0.500 | -- | 1 | A |
| Aroclor 1260 | ND | | ug Abs | 0.500 | -- | 1 | A |
| Aroclor 1262 | ND | | ug Abs | 0.500 | -- | 1 | A |
| Aroclor 1268 | ND | | ug Abs | 0.500 | -- | 1 | A |
| PCBs, Total | ND | | ug Abs | 0.500 | -- | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 96 | | 30-150 | A |
| Decachlorobiphenyl | 104 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 90 | | 30-150 | B |
| Decachlorobiphenyl | 101 | | 30-150 | B |

Project Name: HOLYCROSS**Lab Number:** L1412645**Project Number:** Not Specified**Report Date:** 06/12/14**SAMPLE RESULTS**

Lab ID: L1412645-02
Client ID: WP-05
Sample Location: WORCESTER, MA
Matrix: Wipe
Analytical Method: 97,8082A
Analytical Date: 06/12/14 10:05
Analyst: JT

Date Collected: 06/11/14 00:00
Date Received: 06/11/14
Field Prep: Not Specified
Extraction Method: EPA 3540C
Extraction Date: 06/11/14 14:35
Cleanup Method1: EPA 3665A
Cleanup Date1: 06/12/14
Cleanup Method2: EPA 3660B
Cleanup Date2: 06/12/14

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|--------|-------|-----|-----------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab | | | | | | | |
| Aroclor 1016 | ND | | ug Abs | 0.500 | -- | 1 | A |
| Aroclor 1221 | ND | | ug Abs | 0.500 | -- | 1 | A |
| Aroclor 1232 | ND | | ug Abs | 0.500 | -- | 1 | A |
| Aroclor 1242 | ND | | ug Abs | 0.500 | -- | 1 | A |
| Aroclor 1248 | ND | | ug Abs | 0.500 | -- | 1 | A |
| Aroclor 1254 | ND | | ug Abs | 0.500 | -- | 1 | A |
| Aroclor 1260 | ND | | ug Abs | 0.500 | -- | 1 | A |
| Aroclor 1262 | ND | | ug Abs | 0.500 | -- | 1 | A |
| Aroclor 1268 | ND | | ug Abs | 0.500 | -- | 1 | A |
| PCBs, Total | ND | | ug Abs | 0.500 | -- | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 69 | | 30-150 | A |
| Decachlorobiphenyl | 97 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 65 | | 30-150 | B |
| Decachlorobiphenyl | 91 | | 30-150 | B |

Project Name: HOLYCROSS**Lab Number:** L1412645**Project Number:** Not Specified**Report Date:** 06/12/14**SAMPLE RESULTS**

Lab ID: L1412645-03
Client ID: WP-06
Sample Location: WORCESTER, MA
Matrix: Wipe
Analytical Method: 97,8082A
Analytical Date: 06/12/14 10:19
Analyst: JT

Date Collected: 06/11/14 00:00
Date Received: 06/11/14
Field Prep: Not Specified
Extraction Method: EPA 3540C
Extraction Date: 06/11/14 14:35
Cleanup Method1: EPA 3665A
Cleanup Date1: 06/12/14
Cleanup Method2: EPA 3660B
Cleanup Date2: 06/12/14

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|--------|-------|-----|-----------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab | | | | | | | |
| Aroclor 1016 | ND | | ug Abs | 0.500 | -- | 1 | A |
| Aroclor 1221 | ND | | ug Abs | 0.500 | -- | 1 | A |
| Aroclor 1232 | ND | | ug Abs | 0.500 | -- | 1 | A |
| Aroclor 1242 | ND | | ug Abs | 0.500 | -- | 1 | A |
| Aroclor 1248 | ND | | ug Abs | 0.500 | -- | 1 | A |
| Aroclor 1254 | ND | | ug Abs | 0.500 | -- | 1 | A |
| Aroclor 1260 | ND | | ug Abs | 0.500 | -- | 1 | A |
| Aroclor 1262 | ND | | ug Abs | 0.500 | -- | 1 | A |
| Aroclor 1268 | ND | | ug Abs | 0.500 | -- | 1 | A |
| PCBs, Total | ND | | ug Abs | 0.500 | -- | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 86 | | 30-150 | A |
| Decachlorobiphenyl | 110 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 80 | | 30-150 | B |
| Decachlorobiphenyl | 105 | | 30-150 | B |

Project Name: HOLYCROSS**Lab Number:** L1412645**Project Number:** Not Specified**Report Date:** 06/12/14**SAMPLE RESULTS**

Lab ID: L1412645-04
Client ID: WP-07
Sample Location: WORCESTER, MA
Matrix: Wipe
Analytical Method: 97,8082A
Analytical Date: 06/12/14 10:33
Analyst: JT

Date Collected: 06/11/14 00:00
Date Received: 06/11/14
Field Prep: Not Specified
Extraction Method: EPA 3540C
Extraction Date: 06/11/14 14:35
Cleanup Method1: EPA 3665A
Cleanup Date1: 06/12/14
Cleanup Method2: EPA 3660B
Cleanup Date2: 06/12/14

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|--------|-------|-----|-----------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab | | | | | | | |
| Aroclor 1016 | ND | | ug Abs | 0.500 | -- | 1 | A |
| Aroclor 1221 | ND | | ug Abs | 0.500 | -- | 1 | A |
| Aroclor 1232 | ND | | ug Abs | 0.500 | -- | 1 | A |
| Aroclor 1242 | ND | | ug Abs | 0.500 | -- | 1 | A |
| Aroclor 1248 | ND | | ug Abs | 0.500 | -- | 1 | A |
| Aroclor 1254 | ND | | ug Abs | 0.500 | -- | 1 | A |
| Aroclor 1260 | ND | | ug Abs | 0.500 | -- | 1 | A |
| Aroclor 1262 | ND | | ug Abs | 0.500 | -- | 1 | A |
| Aroclor 1268 | ND | | ug Abs | 0.500 | -- | 1 | A |
| PCBs, Total | ND | | ug Abs | 0.500 | -- | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 96 | | 30-150 | A |
| Decachlorobiphenyl | 105 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 90 | | 30-150 | B |
| Decachlorobiphenyl | 100 | | 30-150 | B |

Project Name: HOLYCROSS**Lab Number:** L1412645**Project Number:** Not Specified**Report Date:** 06/12/14**SAMPLE RESULTS**

Lab ID: L1412645-05
Client ID: WP-08
Sample Location: WORCESTER, MA
Matrix: Wipe
Analytical Method: 97,8082A
Analytical Date: 06/12/14 10:46
Analyst: JT

Date Collected: 06/11/14 00:00
Date Received: 06/11/14
Field Prep: Not Specified
Extraction Method: EPA 3540C
Extraction Date: 06/11/14 14:35
Cleanup Method1: EPA 3665A
Cleanup Date1: 06/12/14
Cleanup Method2: EPA 3660B
Cleanup Date2: 06/12/14

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|--------|-------|-----|-----------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab | | | | | | | |
| Aroclor 1016 | ND | | ug Abs | 0.500 | -- | 1 | A |
| Aroclor 1221 | ND | | ug Abs | 0.500 | -- | 1 | A |
| Aroclor 1232 | ND | | ug Abs | 0.500 | -- | 1 | A |
| Aroclor 1242 | ND | | ug Abs | 0.500 | -- | 1 | A |
| Aroclor 1248 | ND | | ug Abs | 0.500 | -- | 1 | A |
| Aroclor 1254 | ND | | ug Abs | 0.500 | -- | 1 | A |
| Aroclor 1260 | ND | | ug Abs | 0.500 | -- | 1 | A |
| Aroclor 1262 | ND | | ug Abs | 0.500 | -- | 1 | A |
| Aroclor 1268 | ND | | ug Abs | 0.500 | -- | 1 | A |
| PCBs, Total | ND | | ug Abs | 0.500 | -- | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 37 | | 30-150 | A |
| Decachlorobiphenyl | 89 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 35 | | 30-150 | B |
| Decachlorobiphenyl | 84 | | 30-150 | B |

Project Name: HOLYCROSS**Lab Number:** L1412645**Project Number:** Not Specified**Report Date:** 06/12/14

Method Blank Analysis Batch Quality Control

Analytical Method: 97,8082A
 Analytical Date: 06/12/14 11:00
 Analyst: JT

Extraction Method: EPA 3540C
 Extraction Date: 06/11/14 14:35
 Cleanup Method1: EPA 3665A
 Cleanup Date1: 06/12/14
 Cleanup Method2: EPA 3660B
 Cleanup Date2: 06/12/14

| Parameter | Result | Qualifier | Units | RL | MDL | Column |
|--|--------|-----------|--------|-------|-----|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab for sample(s): 01-05 Batch: WG697051-1 | | | | | | |
| Aroclor 1016 | ND | | ug Abs | 0.500 | -- | A |
| Aroclor 1221 | ND | | ug Abs | 0.500 | -- | A |
| Aroclor 1232 | ND | | ug Abs | 0.500 | -- | A |
| Aroclor 1242 | ND | | ug Abs | 0.500 | -- | A |
| Aroclor 1248 | ND | | ug Abs | 0.500 | -- | A |
| Aroclor 1254 | ND | | ug Abs | 0.500 | -- | A |
| Aroclor 1260 | ND | | ug Abs | 0.500 | -- | A |
| Aroclor 1262 | ND | | ug Abs | 0.500 | -- | A |
| Aroclor 1268 | ND | | ug Abs | 0.500 | -- | A |
| PCBs, Total | ND | | ug Abs | 0.500 | -- | A |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|-----------|-----------|------------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 68 | | 30-150 | B |
| 2,4,5,6-Tetrachloro-m-xylene | 73 | | 30-150 | A |
| Decachlorobiphenyl | 114 | | 30-150 | A |
| Decachlorobiphenyl | 108 | | 30-150 | B |

Lab Control Sample Analysis

Batch Quality Control

Project Name: HOLYCROSS

Project Number: Not Specified

Lab Number: L1412645

Report Date: 06/12/14

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits | Column |
|--|------------------|------|-------------------|------|---------------------|-----|------|---------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab Associated sample(s): 01-05 Batch: WG697051-2 WG697051-3 | | | | | | | | | |
| Aroclor 1016 | 67 | | 79 | | 40-140 | 18 | | 30 | A |
| Aroclor 1260 | 91 | | 102 | | 40-140 | 11 | | 30 | A |

| Surrogate | LCS %Recovery | Qual | LCSD %Recovery | Qual | Acceptance Criteria | Column |
|------------------------------|------------------|------|-------------------|------|------------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 47 | | 66 | | 30-150 | A |
| Decachlorobiphenyl | 106 | | 119 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 44 | | 61 | | 30-150 | B |
| Decachlorobiphenyl | 98 | | 108 | | 30-150 | B |

Project Name: HOLYCROSS**Lab Number:** L1412645**Project Number:** Not Specified**Report Date:** 06/12/14**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Reagent H2O Preserved Vials Frozen on: NA**Cooler Information Custody Seal****Cooler**

A Absent

Container Information

| Container ID | Container Type | Cooler | pH | Temp deg C | Pres | Seal | Analysis(*) |
|--------------|------------------------------|--------|-----|---------------|------|--------|------------------------|
| L1412645-01A | Amber 100ml Hexane preserved | A | N/A | 14.9 | Y | Absent | MCP-8082-10-3540C(365) |
| L1412645-02A | Amber 100ml Hexane preserved | A | N/A | 14.9 | Y | Absent | MCP-8082-10-3540C(365) |
| L1412645-03A | Amber 100ml Hexane preserved | A | N/A | 14.9 | Y | Absent | MCP-8082-10-3540C(365) |
| L1412645-04A | Amber 100ml Hexane preserved | A | N/A | 14.9 | Y | Absent | MCP-8082-10-3540C(365) |
| L1412645-05A | Amber 100ml Hexane preserved | A | N/A | 14.9 | Y | Absent | MCP-8082-10-3540C(365) |

*Values in parentheses indicate holding time in days

Project Name: HOLYCROSS
Project Number: Not Specified

Lab Number: L1412645
Report Date: 06/12/14

GLOSSARY

Acronyms

| | |
|------|---|
| EDL | - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME). |
| EPA | - Environmental Protection Agency. |
| LCS | - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes. |
| LCSD | - Laboratory Control Sample Duplicate: Refer to LCS. |
| LFB | - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes. |
| MDL | - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. |
| MS | - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. |
| MSD | - Matrix Spike Sample Duplicate: Refer to MS. |
| NA | - Not Applicable. |
| NC | - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit. |
| NI | - Not Ignitable. |
| RL | - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable. |
| RPD | - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report. |
| SRM | - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples. |

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.

Report Format: Data Usability Report



Project Name: HOLYCROSS**Lab Number:** L1412645**Project Number:** Not Specified**Report Date:** 06/12/14**Data Qualifiers**

- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the reporting limit (RL) for the sample.

Project Name: HOLYCROSS
Project Number: Not Specified

Lab Number: L1412645
Report Date: 06/12/14

REFERENCES

- 97 EPA Test Methods (SW-846) with QC Requirements & Performance Standards for the Analysis of EPA SW-846 Methods under the Massachusetts Contingency Plan, WSC-CAM-IIA, IIB, IIIA, IIIB, IIIC, IIID, VA, VB, VC, VIA, VIB, VIIIA and VIIIB, July 2010.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

Last revised April 15, 2014

The following analytes are not included in our NELAP Scope of Accreditation:

Westborough Facility

EPA 524.2: Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.

EPA 8260C: 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide), Methyl methacrylate, Azobenzene.

EPA 8330A/B: PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT.

EPA 8270D: 1-Methylnaphthalene, Dimethylnaphthalene, 1,4-Diphenylhydrazine.

EPA 625: 4-Chloroaniline, 4-Methylphenol.

SM4500: Soil: Total Phosphorus, TKN, NO₂, NO₃.

EPA 9071: Total Petroleum Hydrocarbons, Oil & Grease.

Mansfield Facility

EPA 8270D: Biphenyl.

EPA 2540D: TSS

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water

EPA 200.8: Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, Tl; **EPA 200.7:** Ba, Be, Ca, Cd, Cr, Cu, Na; **EPA 245.1:** Mercury;

EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**

EPA 332: Perchlorate.

Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.

Non-Potable Water

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, Tl, Zn;

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, Ti, Tl, V, Zn;

EPA 245.1, SM4500H-B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC,

SM426C, SM4500NH3-BH, EPA 350.1: Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO3-F,**

EPA 353.2: Nitrate-N, **SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4,**

SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.

EPA 624: Volatile Halocarbons & Aromatics,

EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF.

For a complete listing of analytes and methods, please contact your Alpha Project Manager.



ANALYTICAL REPORT

| | |
|-----------------|---|
| Lab Number: | L1427194 |
| Client: | Cooperstown Environmental LLC 23 Main Street Andover, MA 01810-0814 |
| ATTN: | Richard Gang |
| Phone: | (978) 470-4755 |
| Project Name: | HOLY CROSS FIELDHOUSE |
| Project Number: | Not Specified |
| Report Date: | 11/20/14 |

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Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: HOLY CROSS FIELDHOUSE

Project Number: Not Specified

Lab Number: L1427194

Report Date: 11/20/14

| Alpha Sample ID | Client ID | Matrix | Sample Location | Collection Date/Time | Receive Date |
|--------------------|-----------|--------|--------------------|-------------------------|--------------|
| L1427194-01 | PE-44 | SOIL | WORCESTER, MA | 11/11/14 10:10 | 11/12/14 |
| L1427194-02 | PE-45 | SOLID | WORCESTER, MA | 11/11/14 10:09 | 11/12/14 |
| L1427194-03 | PE-46 | SOLID | WORCESTER, MA | 11/11/14 09:33 | 11/12/14 |
| L1427194-04 | PE-47 | SOLID | WORCESTER, MA | 11/11/14 10:08 | 11/12/14 |
| L1427194-05 | PE-48 | SOLID | WORCESTER, MA | 11/11/14 10:07 | 11/12/14 |
| L1427194-06 | PE-49 | SOLID | WORCESTER, MA | 11/11/14 09:36 | 11/12/14 |
| L1427194-07 | PE-50 | SOLID | WORCESTER, MA | 11/11/14 09:29 | 11/12/14 |
| L1427194-08 | PE-51 | SOLID | WORCESTER, MA | 11/11/14 09:17 | 11/12/14 |
| L1427194-09 | PE-52 | SOLID | WORCESTER, MA | 11/11/14 09:20 | 11/12/14 |
| L1427194-10 | PE-53 | SOLID | WORCESTER, MA | 11/11/14 09:24 | 11/12/14 |
| L1427194-11 | PE-54 | SOLID | WORCESTER, MA | 11/11/14 09:41 | 11/12/14 |
| L1427194-12 | PE-55 | SOLID | WORCESTER, MA | 11/11/14 09:44 | 11/12/14 |
| L1427194-13 | PE-56 | SOLID | WORCESTER, MA | 11/11/14 09:46 | 11/12/14 |
| L1427194-14 | PE-57 | SOLID | WORCESTER, MA | 11/11/14 09:38 | 11/12/14 |
| L1427194-15 | PE-58 | SOLID | WORCESTER, MA | 11/11/14 09:39 | 11/12/14 |
| L1427194-16 | PE-59 | SOLID | WORCESTER, MA | 11/11/14 09:40 | 11/12/14 |
| L1427194-17 | PE-60 | SOLID | WORCESTER, MA | 11/11/14 09:52 | 11/12/14 |
| L1427194-18 | PE-61 | SOLID | WORCESTER, MA | 11/11/14 09:50 | 11/12/14 |
| L1427194-19 | PE-62 | SOLID | WORCESTER, MA | 11/11/14 09:48 | 11/12/14 |
| L1427194-20 | PE-63 | SOLID | WORCESTER, MA | 11/11/14 10:04 | 11/12/14 |
| L1427194-21 | PE-64 | SOLID | WORCESTER, MA | 11/11/14 09:59 | 11/12/14 |
| L1427194-22 | PE-65 | SOLID | WORCESTER, MA | 11/11/14 09:58 | 11/12/14 |
| L1427194-23 | PE-244 | SOIL | WORCESTER, MA | 11/11/14 10:10 | 11/12/14 |
| L1427194-24 | PE-246 | SOLID | WORCESTER, MA | 11/11/14 09:33 | 11/12/14 |

Project Name: HOLY CROSS FIELDHOUSE

Lab Number: L1427194

Project Number: Not Specified

Report Date: 11/20/14

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

| | | |
|--|---|-----|
| An affirmative response to questions A through F is required for "Presumptive Certainty" status | | |
| A | Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times? | YES |
| B | Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed? | YES |
| C | Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances? | YES |
| D | Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?" | YES |
| E a. | VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). | N/A |
| E b. | APH and TO-15 Methods only: Was the complete analyte list reported for each method? | N/A |
| F | Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)? | YES |
| A response to questions G, H and I is required for "Presumptive Certainty" status | | |
| G | Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)? | NO |
| H | Were all QC performance standards specified in the CAM protocol(s) achieved? | NO |
| I | Were results reported for the complete analyte list specified in the selected CAM protocol(s)? | NO |
| For any questions answered "No", please refer to the case narrative section on the following page(s). | | |

Please note that sample matrix information is located in the Sample Results section of this report.



Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1427194
Report Date: 11/20/14

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1427194
Report Date: 11/20/14

Case Narrative (continued)

MCP Related Narratives

PCBs

L1427194-24 has elevated detection limits due to the dilution required by matrix interferences encountered during the concentration of the sample.

In reference to question G:

L1427194-24: One or more of the target analytes did not achieve the requested CAM reporting limits.

In reference to question H:

The surrogate recoveries for L1427194-12 were outside the acceptance criteria for 2,4,5,6-tetrachloro-m-xylene (20%/21%) and decachlorobiphenyl (29%); however, re-extraction achieved similar results: 2,4,5,6-tetrachloro-m-xylene (17%/20%) and decachlorobiphenyl (14%/19%). The results of both extractions are reported; however, all associated compounds are considered to have a potential bias.

The surrogate recoveries for L1427194-17 were outside the acceptance criteria for 2,4,5,6-tetrachloro-m-xylene (24%/26%); however, re-extraction achieved similar results: 2,4,5,6-tetrachloro-m-xylene (6%/8%) and decachlorobiphenyl (10%/10%). The results of both extractions are reported; however, all associated compounds are considered to have a potential bias.

The surrogate recoveries for L1427194-24 were outside the acceptance criteria for decachlorobiphenyl (15%/16%); however, re-extraction achieved similar results: decachlorobiphenyl (21%/22%). The results of both extractions are reported; however, all associated compounds are considered to have a potential bias.

Metals

In reference to question H:

The WG740317-3 LCSD recovery, associated with L1427194-01 through -20, is outside the acceptance criteria for lead (78%). Re-analysis of the LCSD yielded an unacceptable recovery of 76%. The LCS recovery was within acceptance criteria for this analyte; therefore, no further action was taken.

The WG740085-4 MS recovery, performed on L1427194-01, is outside the acceptance criteria for mercury (139%). Re-analysis of the MS yielded an unacceptable recovery for mercury in the range of 30-74% or >125%. The LCS recovery was within acceptance criteria for these analytes; therefore, no further action was taken.

Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1427194
Report Date: 11/20/14

Case Narrative (continued)

The WG740086-4 MS recovery, performed on L1427194-03, is outside the acceptance criteria for mercury (140%). Re-analysis of the MS yielded an unacceptable recovery for mercury in the range of 30-74% or >125%. The LCS recovery was within acceptance criteria for these analytes; therefore, no further action was taken.

The WG740317-4 MS recoveries, performed on L1427194-01, are outside the acceptance criteria for cadmium (72%), lead (66%), and selenium (71%). Re-analysis of the MS yielded unacceptable recoveries for cadmium (72%), lead (66%), and selenium (72%). The LCS recoveries were within acceptance criteria for these analytes; therefore, no further action was taken.

The WG740317-7 MS recoveries, performed on L1427194-03, are outside the acceptance criteria for cadmium (71%), chromium (68%), and lead (67%). Re-analysis of the MS yielded unacceptable recoveries for cadmium (69%), chromium (68%), and lead (65%). The LCS recoveries were within acceptance criteria for these analytes; therefore, no further action was taken.

The WG740317-6 serial dilution analysis, associated with L1427194-01, had a %D above the acceptance criteria for barium and chromium (both at 67%).

The WG740317-9 serial dilution analysis, associated with L1427194-03, had a %D above the acceptance criteria for barium (62%).

In reference to question I:

All samples were analyzed for a subset of MCP elements per the Chain of Custody.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

 Cristin Walker

Title: Technical Director/Representative

Date: 11/20/14

ORGANICS

PCBS

Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1427194
Report Date: 11/20/14

SAMPLE RESULTS

Lab ID: L1427194-01
Client ID: PE-44
Sample Location: WORCESTER, MA
Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 11/18/14 06:40
Analyst: KB
Percent Solids: 91%

Date Collected: 11/11/14 10:10
Date Received: 11/12/14
Field Prep: Not Specified
Extraction Method: EPA 3540C
Extraction Date: 11/14/14 07:42
Cleanup Method: EPA 3665A
Cleanup Date: 11/17/14
Cleanup Method: EPA 3660B
Cleanup Date: 11/17/14

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|-------|------|-----|-----------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 35.3 | -- | 1 | A |
| Aroclor 1221 | ND | | ug/kg | 35.3 | -- | 1 | A |
| Aroclor 1232 | ND | | ug/kg | 35.3 | -- | 1 | A |
| Aroclor 1242 | ND | | ug/kg | 35.3 | -- | 1 | A |
| Aroclor 1248 | ND | | ug/kg | 35.3 | -- | 1 | A |
| Aroclor 1254 | ND | | ug/kg | 35.3 | -- | 1 | B |
| Aroclor 1260 | ND | | ug/kg | 35.3 | -- | 1 | A |
| Aroclor 1262 | ND | | ug/kg | 35.3 | -- | 1 | A |
| Aroclor 1268 | ND | | ug/kg | 35.3 | -- | 1 | A |
| PCBs, Total | ND | | ug/kg | 35.3 | -- | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 72 | | 30-150 | A |
| Decachlorobiphenyl | 77 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 85 | | 30-150 | B |
| Decachlorobiphenyl | 75 | | 30-150 | B |

Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1427194
Report Date: 11/20/14

SAMPLE RESULTS

Lab ID: L1427194-02
 Client ID: PE-45
 Sample Location: WORCESTER, MA
 Matrix: Solid
 Analytical Method: 97,8082A
 Analytical Date: 11/18/14 06:44
 Analyst: KB
 Percent Solids: 87%

Date Collected: 11/11/14 10:09
 Date Received: 11/12/14
 Field Prep: Not Specified
 Extraction Method: EPA 3540C
 Extraction Date: 11/14/14 15:10
 Cleanup Method: EPA 3665A
 Cleanup Date: 11/17/14
 Cleanup Method: EPA 3660B
 Cleanup Date: 11/17/14

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|-------|------|-----|-----------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 66.7 | -- | 1 | A |
| Aroclor 1221 | ND | | ug/kg | 66.7 | -- | 1 | A |
| Aroclor 1232 | ND | | ug/kg | 66.7 | -- | 1 | A |
| Aroclor 1242 | ND | | ug/kg | 66.7 | -- | 1 | A |
| Aroclor 1248 | ND | | ug/kg | 44.5 | -- | 1 | A |
| Aroclor 1254 | ND | | ug/kg | 66.7 | -- | 1 | A |
| Aroclor 1260 | 167 | | ug/kg | 44.5 | -- | 1 | A |
| Aroclor 1262 | ND | | ug/kg | 22.2 | -- | 1 | A |
| Aroclor 1268 | ND | | ug/kg | 22.2 | -- | 1 | A |
| PCBs, Total | 167 | | ug/kg | 22.2 | -- | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 35 | | 30-150 | A |
| Decachlorobiphenyl | 55 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 32 | | 30-150 | B |
| Decachlorobiphenyl | 50 | | 30-150 | B |

Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1427194
Report Date: 11/20/14

SAMPLE RESULTS

Lab ID: L1427194-03
Client ID: PE-46
Sample Location: WORCESTER, MA
Matrix: Solid
Analytical Method: 97,8082A
Analytical Date: 11/18/14 06:30
Analyst: KB
Percent Solids: 89%

Date Collected: 11/11/14 09:33
Date Received: 11/12/14
Field Prep: Not Specified
Extraction Method: EPA 3540C
Extraction Date: 11/14/14 15:10
Cleanup Method: EPA 3665A
Cleanup Date: 11/17/14
Cleanup Method: EPA 3660B
Cleanup Date: 11/17/14

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|-------|------|-----|-----------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 62.2 | -- | 1 | A |
| Aroclor 1221 | ND | | ug/kg | 62.2 | -- | 1 | A |
| Aroclor 1232 | ND | | ug/kg | 62.2 | -- | 1 | A |
| Aroclor 1242 | ND | | ug/kg | 62.2 | -- | 1 | A |
| Aroclor 1248 | ND | | ug/kg | 41.5 | -- | 1 | A |
| Aroclor 1254 | ND | | ug/kg | 62.2 | -- | 1 | A |
| Aroclor 1260 | ND | | ug/kg | 41.5 | -- | 1 | A |
| Aroclor 1262 | ND | | ug/kg | 20.7 | -- | 1 | A |
| Aroclor 1268 | ND | | ug/kg | 20.7 | -- | 1 | A |
| PCBs, Total | ND | | ug/kg | 20.7 | -- | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 35 | | 30-150 | A |
| Decachlorobiphenyl | 46 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 31 | | 30-150 | B |
| Decachlorobiphenyl | 43 | | 30-150 | B |

Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1427194
Report Date: 11/20/14

SAMPLE RESULTS

Lab ID: L1427194-04
Client ID: PE-47
Sample Location: WORCESTER, MA
Matrix: Solid
Analytical Method: 97,8082A
Analytical Date: 11/19/14 14:47
Analyst: JT
Percent Solids: 93%

Date Collected: 11/11/14 10:08
Date Received: 11/12/14
Field Prep: Not Specified
Extraction Method: EPA 3540C
Extraction Date: 11/18/14 16:36
Cleanup Method: EPA 3665A
Cleanup Date: 11/19/14
Cleanup Method: EPA 3660B
Cleanup Date: 11/19/14

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|-------|------|-----|-----------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 57.4 | -- | 1 | A |
| Aroclor 1221 | ND | | ug/kg | 57.4 | -- | 1 | A |
| Aroclor 1232 | ND | | ug/kg | 57.4 | -- | 1 | A |
| Aroclor 1242 | ND | | ug/kg | 57.4 | -- | 1 | A |
| Aroclor 1248 | ND | | ug/kg | 38.3 | -- | 1 | A |
| Aroclor 1254 | ND | | ug/kg | 57.4 | -- | 1 | A |
| Aroclor 1260 | 43.2 | | ug/kg | 38.3 | -- | 1 | A |
| Aroclor 1262 | ND | | ug/kg | 19.1 | -- | 1 | A |
| Aroclor 1268 | ND | | ug/kg | 19.1 | -- | 1 | A |
| PCBs, Total | 43.2 | | ug/kg | 19.1 | -- | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 53 | | 30-150 | A |
| Decachlorobiphenyl | 66 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 50 | | 30-150 | B |
| Decachlorobiphenyl | 72 | | 30-150 | B |

Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1427194
Report Date: 11/20/14

SAMPLE RESULTS

Lab ID: L1427194-05
Client ID: PE-48
Sample Location: WORCESTER, MA
Matrix: Solid
Analytical Method: 97,8082A
Analytical Date: 11/19/14 14:59
Analyst: JT
Percent Solids: 93%

Date Collected: 11/11/14 10:07
Date Received: 11/12/14
Field Prep: Not Specified
Extraction Method: EPA 3540C
Extraction Date: 11/18/14 16:36
Cleanup Method: EPA 3665A
Cleanup Date: 11/19/14
Cleanup Method: EPA 3660B
Cleanup Date: 11/19/14

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|-------|------|-----|-----------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 55.8 | -- | 1 | A |
| Aroclor 1221 | ND | | ug/kg | 55.8 | -- | 1 | A |
| Aroclor 1232 | ND | | ug/kg | 55.8 | -- | 1 | A |
| Aroclor 1242 | ND | | ug/kg | 55.8 | -- | 1 | A |
| Aroclor 1248 | ND | | ug/kg | 37.2 | -- | 1 | A |
| Aroclor 1254 | ND | | ug/kg | 55.8 | -- | 1 | A |
| Aroclor 1260 | ND | | ug/kg | 37.2 | -- | 1 | A |
| Aroclor 1262 | ND | | ug/kg | 18.6 | -- | 1 | A |
| Aroclor 1268 | ND | | ug/kg | 18.6 | -- | 1 | A |
| PCBs, Total | ND | | ug/kg | 18.6 | -- | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 52 | | 30-150 | A |
| Decachlorobiphenyl | 58 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 50 | | 30-150 | B |
| Decachlorobiphenyl | 71 | | 30-150 | B |

Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1427194
Report Date: 11/20/14

SAMPLE RESULTS

Lab ID: L1427194-06
Client ID: PE-49
Sample Location: WORCESTER, MA
Matrix: Solid
Analytical Method: 97,8082A
Analytical Date: 11/19/14 15:12
Analyst: JT
Percent Solids: 89%

Date Collected: 11/11/14 09:36
Date Received: 11/12/14
Field Prep: Not Specified
Extraction Method: EPA 3540C
Extraction Date: 11/18/14 16:36
Cleanup Method: EPA 3665A
Cleanup Date: 11/19/14
Cleanup Method: EPA 3660B
Cleanup Date: 11/19/14

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|-------|------|-----|-----------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 58.2 | -- | 1 | A |
| Aroclor 1221 | ND | | ug/kg | 58.2 | -- | 1 | A |
| Aroclor 1232 | ND | | ug/kg | 58.2 | -- | 1 | A |
| Aroclor 1242 | ND | | ug/kg | 58.2 | -- | 1 | A |
| Aroclor 1248 | ND | | ug/kg | 38.8 | -- | 1 | A |
| Aroclor 1254 | ND | | ug/kg | 58.2 | -- | 1 | A |
| Aroclor 1260 | 198 | | ug/kg | 38.8 | -- | 1 | B |
| Aroclor 1262 | ND | | ug/kg | 19.4 | -- | 1 | A |
| Aroclor 1268 | ND | | ug/kg | 19.4 | -- | 1 | A |
| PCBs, Total | 198 | | ug/kg | 19.4 | -- | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 39 | | 30-150 | A |
| Decachlorobiphenyl | 54 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 47 | | 30-150 | B |
| Decachlorobiphenyl | 65 | | 30-150 | B |

Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1427194
Report Date: 11/20/14

SAMPLE RESULTS

Lab ID: L1427194-07
Client ID: PE-50
Sample Location: WORCESTER, MA
Matrix: Solid
Analytical Method: 97,8082A
Analytical Date: 11/19/14 15:24
Analyst: JT
Percent Solids: 90%

Date Collected: 11/11/14 09:29
Date Received: 11/12/14
Field Prep: Not Specified
Extraction Method: EPA 3540C
Extraction Date: 11/18/14 16:36
Cleanup Method: EPA 3665A
Cleanup Date: 11/19/14
Cleanup Method: EPA 3660B
Cleanup Date: 11/19/14

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|-------|------|-----|-----------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 60.2 | -- | 1 | A |
| Aroclor 1221 | ND | | ug/kg | 60.2 | -- | 1 | A |
| Aroclor 1232 | ND | | ug/kg | 60.2 | -- | 1 | A |
| Aroclor 1242 | ND | | ug/kg | 60.2 | -- | 1 | A |
| Aroclor 1248 | ND | | ug/kg | 40.1 | -- | 1 | A |
| Aroclor 1254 | ND | | ug/kg | 60.2 | -- | 1 | A |
| Aroclor 1260 | 53.8 | | ug/kg | 40.1 | -- | 1 | B |
| Aroclor 1262 | ND | | ug/kg | 20.1 | -- | 1 | A |
| Aroclor 1268 | ND | | ug/kg | 20.1 | -- | 1 | A |
| PCBs, Total | 53.8 | | ug/kg | 20.1 | -- | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 39 | | 30-150 | A |
| Decachlorobiphenyl | 49 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 54 | | 30-150 | B |
| Decachlorobiphenyl | 69 | | 30-150 | B |

Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1427194
Report Date: 11/20/14

SAMPLE RESULTS

Lab ID: L1427194-08
Client ID: PE-51
Sample Location: WORCESTER, MA
Matrix: Solid
Analytical Method: 97,8082A
Analytical Date: 11/18/14 07:53
Analyst: KB
Percent Solids: 91%

Date Collected: 11/11/14 09:17
Date Received: 11/12/14
Field Prep: Not Specified
Extraction Method: EPA 3540C
Extraction Date: 11/14/14 15:10
Cleanup Method: EPA 3665A
Cleanup Date: 11/17/14
Cleanup Method: EPA 3660B
Cleanup Date: 11/17/14

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|-------|------|-----|-----------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 63.0 | -- | 1 | A |
| Aroclor 1221 | ND | | ug/kg | 63.0 | -- | 1 | A |
| Aroclor 1232 | ND | | ug/kg | 63.0 | -- | 1 | A |
| Aroclor 1242 | ND | | ug/kg | 63.0 | -- | 1 | A |
| Aroclor 1248 | ND | | ug/kg | 42.0 | -- | 1 | A |
| Aroclor 1254 | ND | | ug/kg | 63.0 | -- | 1 | A |
| Aroclor 1260 | ND | | ug/kg | 42.0 | -- | 1 | B |
| Aroclor 1262 | ND | | ug/kg | 21.0 | -- | 1 | A |
| Aroclor 1268 | ND | | ug/kg | 21.0 | -- | 1 | A |
| PCBs, Total | ND | | ug/kg | 21.0 | -- | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 30 | | 30-150 | A |
| Decachlorobiphenyl | 31 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 30 | | 30-150 | B |
| Decachlorobiphenyl | 30 | | 30-150 | B |

Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1427194
Report Date: 11/20/14

SAMPLE RESULTS

Lab ID: L1427194-09
Client ID: PE-52
Sample Location: WORCESTER, MA
Matrix: Solid
Analytical Method: 97,8082A
Analytical Date: 11/18/14 08:06
Analyst: KB
Percent Solids: 90%

Date Collected: 11/11/14 09:20
Date Received: 11/12/14
Field Prep: Not Specified
Extraction Method: EPA 3540C
Extraction Date: 11/14/14 15:10
Cleanup Method: EPA 3665A
Cleanup Date: 11/17/14
Cleanup Method: EPA 3660B
Cleanup Date: 11/17/14

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|-------|------|-----|-----------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 61.9 | -- | 1 | A |
| Aroclor 1221 | ND | | ug/kg | 61.9 | -- | 1 | A |
| Aroclor 1232 | ND | | ug/kg | 61.9 | -- | 1 | A |
| Aroclor 1242 | ND | | ug/kg | 61.9 | -- | 1 | A |
| Aroclor 1248 | ND | | ug/kg | 41.2 | -- | 1 | A |
| Aroclor 1254 | ND | | ug/kg | 61.9 | -- | 1 | A |
| Aroclor 1260 | 148 | | ug/kg | 41.2 | -- | 1 | A |
| Aroclor 1262 | ND | | ug/kg | 20.6 | -- | 1 | A |
| Aroclor 1268 | ND | | ug/kg | 20.6 | -- | 1 | A |
| PCBs, Total | 148 | | ug/kg | 20.6 | -- | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 35 | | 30-150 | A |
| Decachlorobiphenyl | 48 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 31 | | 30-150 | B |
| Decachlorobiphenyl | 45 | | 30-150 | B |

Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1427194
Report Date: 11/20/14

SAMPLE RESULTS

Lab ID: L1427194-10
Client ID: PE-53
Sample Location: WORCESTER, MA
Matrix: Solid
Analytical Method: 97,8082A
Analytical Date: 11/18/14 08:20
Analyst: KB
Percent Solids: 90%

Date Collected: 11/11/14 09:24
Date Received: 11/12/14
Field Prep: Not Specified
Extraction Method: EPA 3540C
Extraction Date: 11/14/14 15:10
Cleanup Method: EPA 3665A
Cleanup Date: 11/17/14
Cleanup Method: EPA 3660B
Cleanup Date: 11/17/14

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|-------|------|-----|-----------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 60.4 | -- | 1 | A |
| Aroclor 1221 | ND | | ug/kg | 60.4 | -- | 1 | A |
| Aroclor 1232 | ND | | ug/kg | 60.4 | -- | 1 | A |
| Aroclor 1242 | ND | | ug/kg | 60.4 | -- | 1 | A |
| Aroclor 1248 | ND | | ug/kg | 40.3 | -- | 1 | A |
| Aroclor 1254 | ND | | ug/kg | 60.4 | -- | 1 | A |
| Aroclor 1260 | 99.9 | | ug/kg | 40.3 | -- | 1 | B |
| Aroclor 1262 | ND | | ug/kg | 20.1 | -- | 1 | A |
| Aroclor 1268 | ND | | ug/kg | 20.1 | -- | 1 | A |
| PCBs, Total | 99.9 | | ug/kg | 20.1 | -- | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 40 | | 30-150 | A |
| Decachlorobiphenyl | 58 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 37 | | 30-150 | B |
| Decachlorobiphenyl | 53 | | 30-150 | B |

Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1427194
Report Date: 11/20/14

SAMPLE RESULTS

Lab ID: L1427194-11
Client ID: PE-54
Sample Location: WORCESTER, MA
Matrix: Solid
Analytical Method: 97,8082A
Analytical Date: 11/18/14 08:34
Analyst: KB
Percent Solids: 90%

Date Collected: 11/11/14 09:41
Date Received: 11/12/14
Field Prep: Not Specified
Extraction Method: EPA 3540C
Extraction Date: 11/14/14 15:10
Cleanup Method: EPA 3665A
Cleanup Date: 11/17/14
Cleanup Method: EPA 3660B
Cleanup Date: 11/17/14

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|-------|------|-----|-----------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 62.6 | -- | 1 | A |
| Aroclor 1221 | ND | | ug/kg | 62.6 | -- | 1 | A |
| Aroclor 1232 | ND | | ug/kg | 62.6 | -- | 1 | A |
| Aroclor 1242 | ND | | ug/kg | 62.6 | -- | 1 | A |
| Aroclor 1248 | ND | | ug/kg | 41.7 | -- | 1 | A |
| Aroclor 1254 | ND | | ug/kg | 62.6 | -- | 1 | A |
| Aroclor 1260 | 59.7 | | ug/kg | 41.7 | -- | 1 | B |
| Aroclor 1262 | ND | | ug/kg | 20.9 | -- | 1 | A |
| Aroclor 1268 | ND | | ug/kg | 20.9 | -- | 1 | A |
| PCBs, Total | 59.7 | | ug/kg | 20.9 | -- | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 33 | | 30-150 | A |
| Decachlorobiphenyl | 43 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 33 | | 30-150 | B |
| Decachlorobiphenyl | 45 | | 30-150 | B |

Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1427194
Report Date: 11/20/14

SAMPLE RESULTS

Lab ID: L1427194-12
Client ID: PE-55
Sample Location: WORCESTER, MA
Matrix: Solid
Analytical Method: 97,8082A
Analytical Date: 11/18/14 08:48
Analyst: JT
Percent Solids: 92%

Date Collected: 11/11/14 09:44
Date Received: 11/12/14
Field Prep: Not Specified
Extraction Method: EPA 3540C
Extraction Date: 11/14/14 15:10
Cleanup Method: EPA 3665A
Cleanup Date: 11/17/14
Cleanup Method: EPA 3660B
Cleanup Date: 11/17/14

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|-------|------|-----|-----------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 63.7 | -- | 1 | A |
| Aroclor 1221 | ND | | ug/kg | 63.7 | -- | 1 | A |
| Aroclor 1232 | ND | | ug/kg | 63.7 | -- | 1 | A |
| Aroclor 1242 | ND | | ug/kg | 63.7 | -- | 1 | A |
| Aroclor 1248 | ND | | ug/kg | 42.5 | -- | 1 | A |
| Aroclor 1254 | ND | | ug/kg | 63.7 | -- | 1 | A |
| Aroclor 1260 | ND | | ug/kg | 42.5 | -- | 1 | A |
| Aroclor 1262 | ND | | ug/kg | 21.2 | -- | 1 | A |
| Aroclor 1268 | ND | | ug/kg | 21.2 | -- | 1 | A |
| PCBs, Total | ND | | ug/kg | 21.2 | -- | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 20 | Q | 30-150 | A |
| Decachlorobiphenyl | 29 | Q | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 21 | Q | 30-150 | B |
| Decachlorobiphenyl | 30 | | 30-150 | B |

Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1427194
Report Date: 11/20/14

SAMPLE RESULTS

Lab ID: L1427194-12 RE
 Client ID: PE-55
 Sample Location: WORCESTER, MA
 Matrix: Solid
 Analytical Method: 97,8082A
 Analytical Date: 11/19/14 15:37
 Analyst: JT
 Percent Solids: 92%

Date Collected: 11/11/14 09:44
 Date Received: 11/12/14
 Field Prep: Not Specified
 Extraction Method: EPA 3540C
 Extraction Date: 11/18/14 16:36
 Cleanup Method: EPA 3665A
 Cleanup Date: 11/19/14
 Cleanup Method: EPA 3660B
 Cleanup Date: 11/19/14

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|-------|------|-----|-----------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 64.6 | -- | 1 | A |
| Aroclor 1221 | ND | | ug/kg | 64.6 | -- | 1 | A |
| Aroclor 1232 | ND | | ug/kg | 64.6 | -- | 1 | A |
| Aroclor 1242 | ND | | ug/kg | 64.6 | -- | 1 | A |
| Aroclor 1248 | ND | | ug/kg | 43.1 | -- | 1 | A |
| Aroclor 1254 | ND | | ug/kg | 64.6 | -- | 1 | A |
| Aroclor 1260 | ND | | ug/kg | 43.1 | -- | 1 | A |
| Aroclor 1262 | ND | | ug/kg | 21.5 | -- | 1 | A |
| Aroclor 1268 | ND | | ug/kg | 21.5 | -- | 1 | A |
| PCBs, Total | ND | | ug/kg | 21.5 | -- | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 17 | Q | 30-150 | A |
| Decachlorobiphenyl | 14 | Q | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 20 | Q | 30-150 | B |
| Decachlorobiphenyl | 19 | Q | 30-150 | B |

Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1427194
Report Date: 11/20/14

SAMPLE RESULTS

Lab ID: L1427194-13
Client ID: PE-56
Sample Location: WORCESTER, MA
Matrix: Solid
Analytical Method: 97,8082A
Analytical Date: 11/19/14 15:49
Analyst: JT
Percent Solids: 94%

Date Collected: 11/11/14 09:46
Date Received: 11/12/14
Field Prep: Not Specified
Extraction Method: EPA 3540C
Extraction Date: 11/18/14 16:36
Cleanup Method: EPA 3665A
Cleanup Date: 11/19/14
Cleanup Method: EPA 3660B
Cleanup Date: 11/19/14

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|-------|------|-----|-----------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 59.3 | -- | 1 | A |
| Aroclor 1221 | ND | | ug/kg | 59.3 | -- | 1 | A |
| Aroclor 1232 | ND | | ug/kg | 59.3 | -- | 1 | A |
| Aroclor 1242 | ND | | ug/kg | 59.3 | -- | 1 | A |
| Aroclor 1248 | ND | | ug/kg | 39.5 | -- | 1 | A |
| Aroclor 1254 | ND | | ug/kg | 59.3 | -- | 1 | A |
| Aroclor 1260 | ND | | ug/kg | 39.5 | -- | 1 | B |
| Aroclor 1262 | ND | | ug/kg | 19.8 | -- | 1 | A |
| Aroclor 1268 | ND | | ug/kg | 19.8 | -- | 1 | A |
| PCBs, Total | ND | | ug/kg | 19.8 | -- | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 48 | | 30-150 | A |
| Decachlorobiphenyl | 44 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 59 | | 30-150 | B |
| Decachlorobiphenyl | 52 | | 30-150 | B |

Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1427194
Report Date: 11/20/14

SAMPLE RESULTS

Lab ID: L1427194-14
Client ID: PE-57
Sample Location: WORCESTER, MA
Matrix: Solid
Analytical Method: 97,8082A
Analytical Date: 11/19/14 16:01
Analyst: JT
Percent Solids: 89%

Date Collected: 11/11/14 09:38
Date Received: 11/12/14
Field Prep: Not Specified
Extraction Method: EPA 3540C
Extraction Date: 11/18/14 16:36
Cleanup Method: EPA 3665A
Cleanup Date: 11/19/14
Cleanup Method: EPA 3660B
Cleanup Date: 11/19/14

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|-------|------|-----|-----------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 64.1 | -- | 1 | A |
| Aroclor 1221 | ND | | ug/kg | 64.1 | -- | 1 | A |
| Aroclor 1232 | ND | | ug/kg | 64.1 | -- | 1 | A |
| Aroclor 1242 | ND | | ug/kg | 64.1 | -- | 1 | A |
| Aroclor 1248 | ND | | ug/kg | 42.7 | -- | 1 | A |
| Aroclor 1254 | ND | | ug/kg | 64.1 | -- | 1 | A |
| Aroclor 1260 | ND | | ug/kg | 42.7 | -- | 1 | A |
| Aroclor 1262 | ND | | ug/kg | 21.4 | -- | 1 | A |
| Aroclor 1268 | ND | | ug/kg | 21.4 | -- | 1 | A |
| PCBs, Total | ND | | ug/kg | 21.4 | -- | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 33 | | 30-150 | A |
| Decachlorobiphenyl | 48 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 35 | | 30-150 | B |
| Decachlorobiphenyl | 55 | | 30-150 | B |

Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1427194
Report Date: 11/20/14

SAMPLE RESULTS

Lab ID: L1427194-15
Client ID: PE-58
Sample Location: WORCESTER, MA
Matrix: Solid
Analytical Method: 97,8082A
Analytical Date: 11/19/14 17:03
Analyst: JT
Percent Solids: 92%

Date Collected: 11/11/14 09:39
Date Received: 11/12/14
Field Prep: Not Specified
Extraction Method: EPA 3540C
Extraction Date: 11/18/14 16:36
Cleanup Method: EPA 3665A
Cleanup Date: 11/19/14
Cleanup Method: EPA 3660B
Cleanup Date: 11/19/14

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|-------|------|-----|-----------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 56.6 | -- | 1 | A |
| Aroclor 1221 | ND | | ug/kg | 56.6 | -- | 1 | A |
| Aroclor 1232 | ND | | ug/kg | 56.6 | -- | 1 | A |
| Aroclor 1242 | ND | | ug/kg | 56.6 | -- | 1 | A |
| Aroclor 1248 | ND | | ug/kg | 37.7 | -- | 1 | A |
| Aroclor 1254 | ND | | ug/kg | 56.6 | -- | 1 | A |
| Aroclor 1260 | 181 | | ug/kg | 37.7 | -- | 1 | A |
| Aroclor 1262 | ND | | ug/kg | 18.8 | -- | 1 | A |
| Aroclor 1268 | ND | | ug/kg | 18.8 | -- | 1 | A |
| PCBs, Total | 181 | | ug/kg | 18.8 | -- | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 68 | | 30-150 | A |
| Decachlorobiphenyl | 65 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 63 | | 30-150 | B |
| Decachlorobiphenyl | 79 | | 30-150 | B |

Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1427194
Report Date: 11/20/14

SAMPLE RESULTS

Lab ID: L1427194-16
Client ID: PE-59
Sample Location: WORCESTER, MA
Matrix: Solid
Analytical Method: 97,8082A
Analytical Date: 11/18/14 09:43
Analyst: KB
Percent Solids: 89%

Date Collected: 11/11/14 09:40
Date Received: 11/12/14
Field Prep: Not Specified
Extraction Method: EPA 3540C
Extraction Date: 11/14/14 15:10
Cleanup Method: EPA 3665A
Cleanup Date: 11/17/14
Cleanup Method: EPA 3660B
Cleanup Date: 11/17/14

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|-------|------|-----|-----------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 61.0 | -- | 1 | A |
| Aroclor 1221 | ND | | ug/kg | 61.0 | -- | 1 | A |
| Aroclor 1232 | ND | | ug/kg | 61.0 | -- | 1 | A |
| Aroclor 1242 | ND | | ug/kg | 61.0 | -- | 1 | A |
| Aroclor 1248 | ND | | ug/kg | 40.7 | -- | 1 | A |
| Aroclor 1254 | ND | | ug/kg | 61.0 | -- | 1 | A |
| Aroclor 1260 | 119 | | ug/kg | 40.7 | -- | 1 | A |
| Aroclor 1262 | ND | | ug/kg | 20.4 | -- | 1 | A |
| Aroclor 1268 | ND | | ug/kg | 20.4 | -- | 1 | A |
| PCBs, Total | 119 | | ug/kg | 20.4 | -- | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 30 | | 30-150 | A |
| Decachlorobiphenyl | 47 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 28 | Q | 30-150 | B |
| Decachlorobiphenyl | 41 | | 30-150 | B |

Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1427194
Report Date: 11/20/14

SAMPLE RESULTS

Lab ID: L1427194-17
Client ID: PE-60
Sample Location: WORCESTER, MA
Matrix: Solid
Analytical Method: 97,8082A
Analytical Date: 11/18/14 09:57
Analyst: JT
Percent Solids: 94%

Date Collected: 11/11/14 09:52
Date Received: 11/12/14
Field Prep: Not Specified
Extraction Method: EPA 3540C
Extraction Date: 11/14/14 15:10
Cleanup Method: EPA 3665A
Cleanup Date: 11/17/14
Cleanup Method: EPA 3660B
Cleanup Date: 11/17/14

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|-------|------|-----|-----------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 55.1 | -- | 1 | A |
| Aroclor 1221 | ND | | ug/kg | 55.1 | -- | 1 | A |
| Aroclor 1232 | ND | | ug/kg | 55.1 | -- | 1 | A |
| Aroclor 1242 | ND | | ug/kg | 55.1 | -- | 1 | A |
| Aroclor 1248 | ND | | ug/kg | 36.7 | -- | 1 | A |
| Aroclor 1254 | ND | | ug/kg | 55.1 | -- | 1 | A |
| Aroclor 1260 | ND | | ug/kg | 36.7 | -- | 1 | B |
| Aroclor 1262 | ND | | ug/kg | 18.4 | -- | 1 | A |
| Aroclor 1268 | ND | | ug/kg | 18.4 | -- | 1 | A |
| PCBs, Total | ND | | ug/kg | 36.7 | -- | 1 | B |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 24 | Q | 30-150 | A |
| Decachlorobiphenyl | 35 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 26 | Q | 30-150 | B |
| Decachlorobiphenyl | 36 | | 30-150 | B |

Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1427194
Report Date: 11/20/14

SAMPLE RESULTS

Lab ID: L1427194-17 RE
Client ID: PE-60
Sample Location: WORCESTER, MA
Matrix: Solid
Analytical Method: 97,8082A
Analytical Date: 11/19/14 17:16
Analyst: JT
Percent Solids: 94%

Date Collected: 11/11/14 09:52
Date Received: 11/12/14
Field Prep: Not Specified
Extraction Method: EPA 3540C
Extraction Date: 11/18/14 16:36
Cleanup Method: EPA 3665A
Cleanup Date: 11/19/14
Cleanup Method: EPA 3660B
Cleanup Date: 11/19/14

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|-------|------|-----|-----------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 61.5 | -- | 1 | A |
| Aroclor 1221 | ND | | ug/kg | 61.5 | -- | 1 | A |
| Aroclor 1232 | ND | | ug/kg | 61.5 | -- | 1 | A |
| Aroclor 1242 | ND | | ug/kg | 61.5 | -- | 1 | A |
| Aroclor 1248 | ND | | ug/kg | 41.0 | -- | 1 | A |
| Aroclor 1254 | ND | | ug/kg | 61.5 | -- | 1 | A |
| Aroclor 1260 | ND | | ug/kg | 41.0 | -- | 1 | A |
| Aroclor 1262 | ND | | ug/kg | 20.5 | -- | 1 | A |
| Aroclor 1268 | ND | | ug/kg | 20.5 | -- | 1 | A |
| PCBs, Total | ND | | ug/kg | 20.5 | -- | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 6 | Q | 30-150 | A |
| Decachlorobiphenyl | 10 | Q | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 8 | Q | 30-150 | B |
| Decachlorobiphenyl | 10 | Q | 30-150 | B |

Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1427194
Report Date: 11/20/14

SAMPLE RESULTS

Lab ID: L1427194-18
Client ID: PE-61
Sample Location: WORCESTER, MA
Matrix: Solid
Analytical Method: 97,8082A
Analytical Date: 11/19/14 17:28
Analyst: JT
Percent Solids: 94%

Date Collected: 11/11/14 09:50
Date Received: 11/12/14
Field Prep: Not Specified
Extraction Method: EPA 3540C
Extraction Date: 11/18/14 16:36
Cleanup Method: EPA 3665A
Cleanup Date: 11/19/14
Cleanup Method: EPA 3660B
Cleanup Date: 11/19/14

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|-------|------|-----|-----------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 60.2 | -- | 1 | A |
| Aroclor 1221 | ND | | ug/kg | 60.2 | -- | 1 | A |
| Aroclor 1232 | ND | | ug/kg | 60.2 | -- | 1 | A |
| Aroclor 1242 | ND | | ug/kg | 60.2 | -- | 1 | A |
| Aroclor 1248 | ND | | ug/kg | 40.1 | -- | 1 | A |
| Aroclor 1254 | ND | | ug/kg | 60.2 | -- | 1 | A |
| Aroclor 1260 | 1080 | | ug/kg | 40.1 | -- | 1 | B |
| Aroclor 1262 | ND | | ug/kg | 20.1 | -- | 1 | A |
| Aroclor 1268 | ND | | ug/kg | 20.1 | -- | 1 | A |
| PCBs, Total | 1080 | | ug/kg | 20.1 | -- | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 65 | | 30-150 | A |
| Decachlorobiphenyl | 61 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 74 | | 30-150 | B |
| Decachlorobiphenyl | 81 | | 30-150 | B |

Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1427194
Report Date: 11/20/14

SAMPLE RESULTS

Lab ID: L1427194-19
Client ID: PE-62
Sample Location: WORCESTER, MA
Matrix: Solid
Analytical Method: 97,8082A
Analytical Date: 11/18/14 10:54
Analyst: KB
Percent Solids: 90%

Date Collected: 11/11/14 09:48
Date Received: 11/12/14
Field Prep: Not Specified
Extraction Method: EPA 3540C
Extraction Date: 11/14/14 15:10
Cleanup Method: EPA 3665A
Cleanup Date: 11/17/14
Cleanup Method: EPA 3660B
Cleanup Date: 11/17/14

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|-------|------|-----|-----------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 58.9 | -- | 1 | A |
| Aroclor 1221 | ND | | ug/kg | 58.9 | -- | 1 | A |
| Aroclor 1232 | ND | | ug/kg | 58.9 | -- | 1 | A |
| Aroclor 1242 | ND | | ug/kg | 58.9 | -- | 1 | A |
| Aroclor 1248 | ND | | ug/kg | 39.3 | -- | 1 | A |
| Aroclor 1254 | ND | | ug/kg | 58.9 | -- | 1 | A |
| Aroclor 1260 | 134 | | ug/kg | 39.3 | -- | 1 | B |
| Aroclor 1262 | ND | | ug/kg | 19.6 | -- | 1 | A |
| Aroclor 1268 | ND | | ug/kg | 19.6 | -- | 1 | A |
| PCBs, Total | 134 | | ug/kg | 19.6 | -- | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 38 | | 30-150 | A |
| Decachlorobiphenyl | 49 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 35 | | 30-150 | B |
| Decachlorobiphenyl | 48 | | 30-150 | B |

Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1427194
Report Date: 11/20/14

SAMPLE RESULTS

Lab ID: L1427194-20
Client ID: PE-63
Sample Location: WORCESTER, MA
Matrix: Solid
Analytical Method: 97,8082A
Analytical Date: 11/18/14 11:08
Analyst: KB
Percent Solids: 90%

Date Collected: 11/11/14 10:04
Date Received: 11/12/14
Field Prep: Not Specified
Extraction Method: EPA 3540C
Extraction Date: 11/14/14 15:10
Cleanup Method: EPA 3665A
Cleanup Date: 11/17/14
Cleanup Method: EPA 3660B
Cleanup Date: 11/17/14

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|-------|------|-----|-----------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 58.3 | -- | 1 | A |
| Aroclor 1221 | ND | | ug/kg | 58.3 | -- | 1 | A |
| Aroclor 1232 | ND | | ug/kg | 58.3 | -- | 1 | A |
| Aroclor 1242 | ND | | ug/kg | 58.3 | -- | 1 | A |
| Aroclor 1248 | ND | | ug/kg | 38.9 | -- | 1 | A |
| Aroclor 1254 | ND | | ug/kg | 58.3 | -- | 1 | A |
| Aroclor 1260 | ND | | ug/kg | 38.9 | -- | 1 | A |
| Aroclor 1262 | ND | | ug/kg | 19.4 | -- | 1 | A |
| Aroclor 1268 | ND | | ug/kg | 19.4 | -- | 1 | A |
| PCBs, Total | ND | | ug/kg | 19.4 | -- | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 31 | | 30-150 | A |
| Decachlorobiphenyl | 43 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 30 | | 30-150 | B |
| Decachlorobiphenyl | 41 | | 30-150 | B |

Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1427194
Report Date: 11/20/14

SAMPLE RESULTS

Lab ID: L1427194-21
Client ID: PE-64
Sample Location: WORCESTER, MA
Matrix: Solid
Analytical Method: 97,8082A
Analytical Date: 11/19/14 17:40
Analyst: JT
Percent Solids: 92%

Date Collected: 11/11/14 09:59
Date Received: 11/12/14
Field Prep: Not Specified
Extraction Method: EPA 3540C
Extraction Date: 11/18/14 16:36
Cleanup Method: EPA 3665A
Cleanup Date: 11/19/14
Cleanup Method: EPA 3660B
Cleanup Date: 11/19/14

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|-------|------|-----|-----------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 60.4 | -- | 1 | A |
| Aroclor 1221 | ND | | ug/kg | 60.4 | -- | 1 | A |
| Aroclor 1232 | ND | | ug/kg | 60.4 | -- | 1 | A |
| Aroclor 1242 | ND | | ug/kg | 60.4 | -- | 1 | A |
| Aroclor 1248 | ND | | ug/kg | 40.3 | -- | 1 | A |
| Aroclor 1254 | ND | | ug/kg | 60.4 | -- | 1 | A |
| Aroclor 1260 | 62.5 | | ug/kg | 40.3 | -- | 1 | B |
| Aroclor 1262 | ND | | ug/kg | 20.1 | -- | 1 | A |
| Aroclor 1268 | ND | | ug/kg | 20.1 | -- | 1 | A |
| PCBs, Total | 62.5 | | ug/kg | 20.1 | -- | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 58 | | 30-150 | A |
| Decachlorobiphenyl | 63 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 58 | | 30-150 | B |
| Decachlorobiphenyl | 69 | | 30-150 | B |

Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1427194
Report Date: 11/20/14

SAMPLE RESULTS

Lab ID: L1427194-22
Client ID: PE-65
Sample Location: WORCESTER, MA
Matrix: Solid
Analytical Method: 97,8082A
Analytical Date: 11/20/14 09:25
Analyst: JW
Percent Solids: 91%

Date Collected: 11/11/14 09:58
Date Received: 11/12/14
Field Prep: Not Specified
Extraction Method: EPA 3540C
Extraction Date: 11/19/14 03:05
Cleanup Method: EPA 3665A
Cleanup Date: 11/20/14
Cleanup Method: EPA 3660B
Cleanup Date: 11/20/14

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|-------|------|-----|-----------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 62.2 | -- | 1 | A |
| Aroclor 1221 | ND | | ug/kg | 62.2 | -- | 1 | A |
| Aroclor 1232 | ND | | ug/kg | 62.2 | -- | 1 | A |
| Aroclor 1242 | ND | | ug/kg | 62.2 | -- | 1 | A |
| Aroclor 1248 | ND | | ug/kg | 41.4 | -- | 1 | A |
| Aroclor 1254 | ND | | ug/kg | 62.2 | -- | 1 | A |
| Aroclor 1260 | ND | | ug/kg | 41.4 | -- | 1 | A |
| Aroclor 1262 | ND | | ug/kg | 20.7 | -- | 1 | A |
| Aroclor 1268 | ND | | ug/kg | 20.7 | -- | 1 | A |
| PCBs, Total | ND | | ug/kg | 20.7 | -- | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 40 | | 30-150 | A |
| Decachlorobiphenyl | 70 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 45 | | 30-150 | B |
| Decachlorobiphenyl | 87 | | 30-150 | B |

Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1427194
Report Date: 11/20/14

SAMPLE RESULTS

Lab ID: L1427194-23
Client ID: PE-244
Sample Location: WORCESTER, MA
Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 11/18/14 06:52
Analyst: KB
Percent Solids: 91%

Date Collected: 11/11/14 10:10
Date Received: 11/12/14
Field Prep: Not Specified
Extraction Method: EPA 3540C
Extraction Date: 11/14/14 07:42
Cleanup Method: EPA 3665A
Cleanup Date: 11/17/14
Cleanup Method: EPA 3660B
Cleanup Date: 11/17/14

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|-------|------|-----|-----------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 34.8 | -- | 1 | A |
| Aroclor 1221 | ND | | ug/kg | 34.8 | -- | 1 | A |
| Aroclor 1232 | ND | | ug/kg | 34.8 | -- | 1 | A |
| Aroclor 1242 | ND | | ug/kg | 34.8 | -- | 1 | A |
| Aroclor 1248 | ND | | ug/kg | 34.8 | -- | 1 | A |
| Aroclor 1254 | 124 | | ug/kg | 34.8 | -- | 1 | B |
| Aroclor 1260 | ND | | ug/kg | 34.8 | -- | 1 | B |
| Aroclor 1262 | ND | | ug/kg | 34.8 | -- | 1 | A |
| Aroclor 1268 | ND | | ug/kg | 34.8 | -- | 1 | A |
| PCBs, Total | 124 | | ug/kg | 34.8 | -- | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 52 | | 30-150 | A |
| Decachlorobiphenyl | 56 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 62 | | 30-150 | B |
| Decachlorobiphenyl | 55 | | 30-150 | B |

Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1427194
Report Date: 11/20/14

SAMPLE RESULTS

Lab ID: L1427194-24
Client ID: PE-246
Sample Location: WORCESTER, MA
Matrix: Solid
Analytical Method: 97,8082A
Analytical Date: 11/18/14 05:38
Analyst: JW
Percent Solids: 88%

Date Collected: 11/11/14 09:33
Date Received: 11/12/14
Field Prep: Not Specified
Extraction Method: EPA 3540C
Extraction Date: 11/14/14 15:25
Cleanup Method: EPA 3665A
Cleanup Date: 11/17/14
Cleanup Method: EPA 3660B
Cleanup Date: 11/17/14

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|-------|------|-----|-----------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 171 | -- | 3 | A |
| Aroclor 1221 | ND | | ug/kg | 171 | -- | 3 | A |
| Aroclor 1232 | ND | | ug/kg | 171 | -- | 3 | A |
| Aroclor 1242 | ND | | ug/kg | 171 | -- | 3 | A |
| Aroclor 1248 | ND | | ug/kg | 114 | -- | 3 | A |
| Aroclor 1254 | ND | | ug/kg | 171 | -- | 3 | A |
| Aroclor 1260 | ND | | ug/kg | 114 | -- | 3 | A |
| Aroclor 1262 | ND | | ug/kg | 57.1 | -- | 3 | A |
| Aroclor 1268 | ND | | ug/kg | 57.1 | -- | 3 | A |
| PCBs, Total | ND | | ug/kg | 57.1 | -- | 3 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 29 | Q | 30-150 | A |
| Decachlorobiphenyl | 15 | Q | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 30 | | 30-150 | B |
| Decachlorobiphenyl | 16 | Q | 30-150 | B |

Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1427194
Report Date: 11/20/14

SAMPLE RESULTS

Lab ID: L1427194-24 RE
Client ID: PE-246
Sample Location: WORCESTER, MA
Matrix: Solid
Analytical Method: 97,8082A
Analytical Date: 11/20/14 09:42
Analyst: JW
Percent Solids: 88%

Date Collected: 11/11/14 09:33
Date Received: 11/12/14
Field Prep: Not Specified
Extraction Method: EPA 3540C
Extraction Date: 11/19/14 03:05
Cleanup Method: EPA 3665A
Cleanup Date: 11/20/14
Cleanup Method: EPA 3660B
Cleanup Date: 11/20/14

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|-------|------|-----|-----------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 62.3 | -- | 1 | A |
| Aroclor 1221 | ND | | ug/kg | 62.3 | -- | 1 | A |
| Aroclor 1232 | ND | | ug/kg | 62.3 | -- | 1 | A |
| Aroclor 1242 | ND | | ug/kg | 62.3 | -- | 1 | A |
| Aroclor 1248 | ND | | ug/kg | 41.5 | -- | 1 | A |
| Aroclor 1254 | ND | | ug/kg | 62.3 | -- | 1 | A |
| Aroclor 1260 | ND | | ug/kg | 41.5 | -- | 1 | A |
| Aroclor 1262 | ND | | ug/kg | 20.8 | -- | 1 | A |
| Aroclor 1268 | ND | | ug/kg | 20.8 | -- | 1 | A |
| PCBs, Total | ND | | ug/kg | 20.8 | -- | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 21 | Q | 30-150 | A |
| Decachlorobiphenyl | 43 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 22 | Q | 30-150 | B |
| Decachlorobiphenyl | 47 | | 30-150 | B |

Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1427194**Project Number:** Not Specified**Report Date:** 11/20/14

Method Blank Analysis Batch Quality Control

Analytical Method: 97,8082A
 Analytical Date: 11/18/14 05:50
 Analyst: KB

Extraction Method: EPA 3540C
 Extraction Date: 11/14/14 07:42
 Cleanup Method: EPA 3665A
 Cleanup Date: 11/17/14
 Cleanup Method: EPA 3660B
 Cleanup Date: 11/17/14

| Parameter | Result | Qualifier | Units | RL | MDL | Column |
|--|--------|-----------|-------|------|-----|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab for sample(s): 01,23 Batch: WG740493-1 | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 31.5 | -- | A |
| Aroclor 1221 | ND | | ug/kg | 31.5 | -- | A |
| Aroclor 1232 | ND | | ug/kg | 31.5 | -- | A |
| Aroclor 1242 | ND | | ug/kg | 31.5 | -- | A |
| Aroclor 1248 | ND | | ug/kg | 31.5 | -- | A |
| Aroclor 1254 | ND | | ug/kg | 31.5 | -- | A |
| Aroclor 1260 | ND | | ug/kg | 31.5 | -- | A |
| Aroclor 1262 | ND | | ug/kg | 31.5 | -- | A |
| Aroclor 1268 | ND | | ug/kg | 31.5 | -- | A |
| PCBs, Total | ND | | ug/kg | 31.5 | -- | A |

| Surrogate | %Recovery | Qualifier | Acceptance | Column |
|------------------------------|-----------|-----------|------------|--------|
| | | | Criteria | |
| 2,4,5,6-Tetrachloro-m-xylene | 72 | | 30-150 | A |
| Decachlorobiphenyl | 79 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 85 | | 30-150 | B |
| Decachlorobiphenyl | 77 | | 30-150 | B |

Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1427194**Project Number:** Not Specified**Report Date:** 11/20/14

Method Blank Analysis Batch Quality Control

Analytical Method: 97,8082A
 Analytical Date: 11/18/14 05:35
 Analyst: KB

Extraction Method: EPA 3540C
 Extraction Date: 11/14/14 15:10
 Cleanup Method: EPA 3665A
 Cleanup Date: 11/17/14
 Cleanup Method: EPA 3660B
 Cleanup Date: 11/17/14

| Parameter | Result | Qualifier | Units | RL | MDL | Column |
|---|--------|-----------|-------|------|-----|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab for sample(s): 02-03,08-11,16,19-20 Batch: WG740689-1 | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 53.3 | -- | A |
| Aroclor 1221 | ND | | ug/kg | 53.3 | -- | A |
| Aroclor 1232 | ND | | ug/kg | 53.3 | -- | A |
| Aroclor 1242 | ND | | ug/kg | 53.3 | -- | A |
| Aroclor 1248 | ND | | ug/kg | 35.5 | -- | A |
| Aroclor 1254 | ND | | ug/kg | 53.3 | -- | A |
| Aroclor 1260 | ND | | ug/kg | 35.5 | -- | A |
| Aroclor 1262 | ND | | ug/kg | 17.8 | -- | A |
| Aroclor 1268 | ND | | ug/kg | 17.8 | -- | A |
| PCBs, Total | ND | | ug/kg | 17.8 | -- | A |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|-----------|-----------|------------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 71 | | 30-150 | A |
| Decachlorobiphenyl | 70 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 66 | | 30-150 | B |
| Decachlorobiphenyl | 77 | | 30-150 | B |

Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1427194**Project Number:** Not Specified**Report Date:** 11/20/14

Method Blank Analysis Batch Quality Control

Analytical Method: 97,8082A
 Analytical Date: 11/19/14 16:14
 Analyst: JT

Extraction Method: EPA 3540C
 Extraction Date: 11/18/14 16:36
 Cleanup Method: EPA 3665A
 Cleanup Date: 11/19/14
 Cleanup Method: EPA 3660B
 Cleanup Date: 11/19/14

| Parameter | Result | Qualifier | Units | RL | MDL | Column |
|---|--------|-----------|-------|------|-----|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab for sample(s): 04-07,12-15,17-18,21 Batch: WG741644-1 | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 57.2 | -- | A |
| Aroclor 1221 | ND | | ug/kg | 57.2 | -- | A |
| Aroclor 1232 | ND | | ug/kg | 57.2 | -- | A |
| Aroclor 1242 | ND | | ug/kg | 57.2 | -- | A |
| Aroclor 1248 | ND | | ug/kg | 38.2 | -- | A |
| Aroclor 1254 | ND | | ug/kg | 57.2 | -- | A |
| Aroclor 1260 | ND | | ug/kg | 38.2 | -- | A |
| Aroclor 1262 | ND | | ug/kg | 19.1 | -- | A |
| Aroclor 1268 | ND | | ug/kg | 19.1 | -- | A |
| PCBs, Total | ND | | ug/kg | 19.1 | -- | A |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|-----------|-----------|------------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 75 | | 30-150 | A |
| Decachlorobiphenyl | 67 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 87 | | 30-150 | B |
| Decachlorobiphenyl | 79 | | 30-150 | B |

Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1427194**Project Number:** Not Specified**Report Date:** 11/20/14

Method Blank Analysis Batch Quality Control

Analytical Method: 97,8082A
 Analytical Date: 11/20/14 08:35
 Analyst: JW

Extraction Method: EPA 3540C
 Extraction Date: 11/19/14 03:05
 Cleanup Method: EPA 3665A
 Cleanup Date: 11/20/14
 Cleanup Method: EPA 3660B
 Cleanup Date: 11/20/14

| Parameter | Result | Qualifier | Units | RL | MDL | Column |
|--|--------|-----------|-------|------|-----|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab for sample(s): 22,24 Batch: WG741796-1 | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 50.8 | -- | A |
| Aroclor 1221 | ND | | ug/kg | 50.8 | -- | A |
| Aroclor 1232 | ND | | ug/kg | 50.8 | -- | A |
| Aroclor 1242 | ND | | ug/kg | 50.8 | -- | A |
| Aroclor 1248 | ND | | ug/kg | 33.9 | -- | A |
| Aroclor 1254 | ND | | ug/kg | 50.8 | -- | A |
| Aroclor 1260 | ND | | ug/kg | 33.9 | -- | A |
| Aroclor 1262 | ND | | ug/kg | 16.9 | -- | A |
| Aroclor 1268 | ND | | ug/kg | 16.9 | -- | A |
| PCBs, Total | ND | | ug/kg | 16.9 | -- | A |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|-----------|-----------|------------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 57 | | 30-150 | A |
| Decachlorobiphenyl | 66 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 62 | | 30-150 | B |
| Decachlorobiphenyl | 79 | | 30-150 | B |

Matrix Spike Analysis

Batch Quality Control

Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1427194**Project Number:** Not Specified**Report Date:** 11/20/14

| <i>Parameter</i> | <i>Native Sample</i> | <i>MS Added</i> | <i>MS Found</i> | <i>MS %Recovery</i> | <i>Qual</i> | <i>MSD Found</i> | <i>MSD %Recovery</i> | <i>Qual</i> | <i>Recovery Limits</i> | <i>RPD</i> | <i>Qual</i> | <i>RPD Limits</i> | <i>Column</i> |
|--|----------------------|-----------------|-----------------|---------------------|-------------|------------------|----------------------|-------------|------------------------|------------|-------------|-------------------|---------------|
| MCP Polychlorinated Biphenyls - Westborough Lab Associated sample(s): 01,23 QC Batch ID: WG740493-4 QC Sample: L1427194-01 Client ID: PE-44 | | | | | | | | | | | | | |
| Aroclor 1016 | ND | 219 | 157 | 72 | | - | - | | 40-140 | - | | 30 | A |
| Aroclor 1260 | ND | 219 | 193 | 88 | | - | - | | 40-140 | - | | 30 | A |

| <i>Surrogate</i> | <i>MS % Recovery</i> | <i>Qualifier</i> | <i>MSD % Recovery</i> | <i>Qualifier</i> | <i>Acceptance Criteria</i> | <i>Column</i> |
|------------------------------|----------------------|------------------|-----------------------|------------------|----------------------------|---------------|
| 2,4,5,6-Tetrachloro-m-xylene | 63 | | | | 30-150 | A |
| Decachlorobiphenyl | 80 | | | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 70 | | | | 30-150 | B |
| Decachlorobiphenyl | 76 | | | | 30-150 | B |

Matrix Spike Analysis

Batch Quality Control

Project Name: HOLY CROSS FIELDHOUSE

Project Number: Not Specified

Lab Number: L1427194

Report Date: 11/20/14

| <i>Parameter</i> | <i>Native Sample</i> | <i>MS Added</i> | <i>MS Found</i> | <i>MS %Recovery</i> | <i>Qual</i> | <i>MSD Found</i> | <i>MSD %Recovery</i> | <i>Qual</i> | <i>Recovery Limits</i> | <i>RPD</i> | <i>Qual</i> | <i>RPD Limits</i> | <i>Column</i> |
|--|----------------------|-----------------|-----------------|---------------------|-------------|------------------|----------------------|-------------|------------------------|------------|-------------|-------------------|---------------|
| MCP Polychlorinated Biphenyls - Westborough Lab Associated sample(s): 02-03,08-11,16,19-20 QC Batch ID: WG740689-4 QC Sample: L1427194-03 Client ID: PE-46 | | | | | | | | | | | | | |
| Aroclor 1016 | ND | 698 | 330 | 47 | | - | - | | 40-140 | - | | 30 | A |
| Aroclor 1260 | ND | 698 | 340 | 49 | | - | - | | 40-140 | - | | 30 | A |

| <i>Surrogate</i> | <i>MS</i> | | <i>MSD</i> | | <i>Acceptance Criteria</i> | <i>Column</i> |
|------------------------------|-------------------|------------------|-------------------|------------------|----------------------------|---------------|
| | <i>% Recovery</i> | <i>Qualifier</i> | <i>% Recovery</i> | <i>Qualifier</i> | | |
| 2,4,5,6-Tetrachloro-m-xylene | 44 | | | | 30-150 | A |
| Decachlorobiphenyl | 61 | | | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 45 | | | | 30-150 | B |
| Decachlorobiphenyl | 65 | | | | 30-150 | B |

Lab Control Sample Analysis**Batch Quality Control****Project Name:** HOLY CROSS FIELDHOUSE**Project Number:** Not Specified**Lab Number:** L1427194**Report Date:** 11/20/14

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits | Column |
|--|--------------------------|-------------|---------------------------|-------------|-----------------------------|------------|-------------|-----------------------|---------------|
| MCP Polychlorinated Biphenyls - Westborough Lab Associated sample(s): 01,23 Batch: WG740493-2 WG740493-3 | | | | | | | | | |
| Aroclor 1016 | 75 | | 81 | | 40-140 | 8 | | 30 | A |
| Aroclor 1260 | 79 | | 92 | | 40-140 | 15 | | 30 | A |

| Surrogate | LCS %Recovery | Qual | LCSD %Recovery | Qual | Acceptance Criteria | Column |
|------------------------------|--------------------------|-------------|---------------------------|-------------|--------------------------------|---------------|
| 2,4,5,6-Tetrachloro-m-xylene | 67 | | 83 | | 30-150 | A |
| Decachlorobiphenyl | 75 | | 85 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 74 | | 90 | | 30-150 | B |
| Decachlorobiphenyl | 72 | | 78 | | 30-150 | B |

Lab Control Sample Analysis**Batch Quality Control****Project Name:** HOLY CROSS FIELDHOUSE**Project Number:** Not Specified**Lab Number:** L1427194**Report Date:** 11/20/14

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits | Column |
|---|--------------------------|-------------|---------------------------|-------------|-----------------------------|------------|-------------|-----------------------|---------------|
| MCP Polychlorinated Biphenyls - Westborough Lab Associated sample(s): 02-03,08-11,16,19-20 Batch: WG740689-2 WG740689-3 | | | | | | | | | |
| Aroclor 1016 | 74 | | 69 | | 40-140 | 7 | | 30 | A |
| Aroclor 1260 | 75 | | 66 | | 40-140 | 13 | | 30 | A |

| Surrogate | LCS %Recovery | Qual | LCSD %Recovery | Qual | Acceptance Criteria | Column |
|------------------------------|--------------------------|-------------|---------------------------|-------------|--------------------------------|---------------|
| 2,4,5,6-Tetrachloro-m-xylene | 71 | | 65 | | 30-150 | A |
| Decachlorobiphenyl | 73 | | 70 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 67 | | 63 | | 30-150 | B |
| Decachlorobiphenyl | 77 | | 72 | | 30-150 | B |

Lab Control Sample Analysis**Batch Quality Control****Project Name:** HOLY CROSS FIELDHOUSE**Project Number:** Not Specified**Lab Number:** L1427194**Report Date:** 11/20/14

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits | Column |
|---|--------------------------|-------------|---------------------------|-------------|-----------------------------|------------|-------------|-----------------------|---------------|
| MCP Polychlorinated Biphenyls - Westborough Lab Associated sample(s): 04-07,12-15,17-18,21 Batch: WG741644-2 WG741644-3 | | | | | | | | | |
| Aroclor 1016 | 79 | | 78 | | 40-140 | 1 | | 30 | A |
| Aroclor 1260 | 80 | | 82 | | 40-140 | 2 | | 30 | A |

| Surrogate | LCS %Recovery | Qual | LCSD %Recovery | Qual | Acceptance Criteria | Column |
|------------------------------|--------------------------|-------------|---------------------------|-------------|--------------------------------|---------------|
| 2,4,5,6-Tetrachloro-m-xylene | 75 | | 74 | | 30-150 | A |
| Decachlorobiphenyl | 74 | | 75 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 81 | | 82 | | 30-150 | B |
| Decachlorobiphenyl | 73 | | 75 | | 30-150 | B |

Lab Control Sample Analysis**Batch Quality Control****Project Name:** HOLY CROSS FIELDHOUSE**Lab Number:** L1427194**Project Number:** Not Specified**Report Date:** 11/20/14

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits | Column |
|--|--------------------------|-------------|---------------------------|-------------|-----------------------------|------------|-------------|-----------------------|---------------|
| MCP Polychlorinated Biphenyls - Westborough Lab Associated sample(s): 22,24 Batch: WG741796-2 WG741796-3 | | | | | | | | | |
| Aroclor 1016 | 70 | | 75 | | 40-140 | 7 | | 30 | A |
| Aroclor 1260 | 73 | | 81 | | 40-140 | 10 | | 30 | A |

| Surrogate | LCS %Recovery | Qual | LCSD %Recovery | Qual | Acceptance Criteria | Column |
|------------------------------|--------------------------|-------------|---------------------------|-------------|--------------------------------|---------------|
| 2,4,5,6-Tetrachloro-m-xylene | 68 | | 72 | | 30-150 | A |
| Decachlorobiphenyl | 78 | | 87 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 71 | | 77 | | 30-150 | B |
| Decachlorobiphenyl | 90 | | 101 | | 30-150 | B |

METALS

Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1427194**Project Number:** Not Specified**Report Date:** 11/20/14**SAMPLE RESULTS**

Lab ID: L1427194-01

Date Collected: 11/11/14 10:10

Client ID: PE-44

Date Received: 11/12/14

Sample Location: WORCESTER, MA

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 91%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|------------------------------------|--------|-----------|-------|-------|-----|-----------------|----------------|----------------|-------------|-------------------|---------|
| MCP Total Metals - Westborough Lab | | | | | | | | | | | |
| Arsenic, Total | 17 | | mg/kg | 0.42 | -- | 1 | 11/13/14 17:02 | 11/14/14 10:19 | EPA 3050B | 97,6010C | JH |
| Barium, Total | 45 | | mg/kg | 0.42 | -- | 1 | 11/13/14 17:02 | 11/14/14 10:19 | EPA 3050B | 97,6010C | JH |
| Cadmium, Total | ND | | mg/kg | 0.42 | -- | 1 | 11/13/14 17:02 | 11/14/14 10:19 | EPA 3050B | 97,6010C | JH |
| Chromium, Total | 21 | | mg/kg | 0.42 | -- | 1 | 11/13/14 17:02 | 11/14/14 10:19 | EPA 3050B | 97,6010C | JH |
| Lead, Total | 3.8 | | mg/kg | 2.1 | -- | 1 | 11/13/14 17:02 | 11/14/14 10:19 | EPA 3050B | 97,6010C | JH |
| Mercury, Total | ND | | mg/kg | 0.070 | -- | 1 | 11/13/14 09:12 | 11/13/14 10:28 | EPA 7471B | 97,7471B | MC |
| Selenium, Total | ND | | mg/kg | 2.1 | -- | 1 | 11/13/14 17:02 | 11/14/14 10:19 | EPA 3050B | 97,6010C | JH |
| Silver, Total | ND | | mg/kg | 0.42 | -- | 1 | 11/13/14 17:02 | 11/14/14 10:19 | EPA 3050B | 97,6010C | JH |



Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1427194**Project Number:** Not Specified**Report Date:** 11/20/14**SAMPLE RESULTS****Lab ID:** L1427194-02**Date Collected:** 11/11/14 10:09**Client ID:** PE-45**Date Received:** 11/12/14**Sample Location:** WORCESTER, MA**Field Prep:** Not Specified**Matrix:** Solid**Percent Solids:** 87%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|------------------------------------|--------|-----------|-------|-------|-----|-----------------|----------------|----------------|-------------|-------------------|---------|
| MCP Total Metals - Westborough Lab | | | | | | | | | | | |
| Arsenic, Total | 14 | | mg/kg | 0.45 | -- | 1 | 11/13/14 17:02 | 11/14/14 11:09 | EPA 3050B | 97,6010C | JH |
| Barium, Total | 68 | | mg/kg | 0.45 | -- | 1 | 11/13/14 17:02 | 11/14/14 11:09 | EPA 3050B | 97,6010C | JH |
| Cadmium, Total | ND | | mg/kg | 0.45 | -- | 1 | 11/13/14 17:02 | 11/14/14 11:09 | EPA 3050B | 97,6010C | JH |
| Chromium, Total | 13 | | mg/kg | 0.45 | -- | 1 | 11/13/14 17:02 | 11/14/14 11:09 | EPA 3050B | 97,6010C | JH |
| Lead, Total | 2.4 | | mg/kg | 2.2 | -- | 1 | 11/13/14 17:02 | 11/14/14 11:09 | EPA 3050B | 97,6010C | JH |
| Mercury, Total | ND | | mg/kg | 0.079 | -- | 1 | 11/18/14 09:32 | 11/18/14 11:28 | EPA 7471B | 97,7471B | MC |
| Selenium, Total | ND | | mg/kg | 2.2 | -- | 1 | 11/13/14 17:02 | 11/14/14 11:09 | EPA 3050B | 97,6010C | JH |
| Silver, Total | ND | | mg/kg | 0.45 | -- | 1 | 11/13/14 17:02 | 11/14/14 11:09 | EPA 3050B | 97,6010C | JH |



Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1427194**Project Number:** Not Specified**Report Date:** 11/20/14**SAMPLE RESULTS**

Lab ID: L1427194-03

Date Collected: 11/11/14 09:33

Client ID: PE-46

Date Received: 11/12/14

Sample Location: WORCESTER, MA

Field Prep: Not Specified

Matrix: Solid

Percent Solids: 89%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|------------------------------------|--------|-----------|-------|-------|-----|-----------------|----------------|----------------|-------------|-------------------|---------|
| MCP Total Metals - Westborough Lab | | | | | | | | | | | |
| Arsenic, Total | 16 | | mg/kg | 0.43 | -- | 1 | 11/13/14 17:02 | 11/14/14 10:31 | EPA 3050B | 97,6010C | JH |
| Barium, Total | 74 | | mg/kg | 0.43 | -- | 1 | 11/13/14 17:02 | 11/14/14 10:31 | EPA 3050B | 97,6010C | JH |
| Cadmium, Total | ND | | mg/kg | 0.43 | -- | 1 | 11/13/14 17:02 | 11/14/14 10:31 | EPA 3050B | 97,6010C | JH |
| Chromium, Total | 14 | | mg/kg | 0.43 | -- | 1 | 11/13/14 17:02 | 11/14/14 10:31 | EPA 3050B | 97,6010C | JH |
| Lead, Total | 2.7 | | mg/kg | 2.2 | -- | 1 | 11/13/14 17:02 | 11/14/14 10:31 | EPA 3050B | 97,6010C | JH |
| Mercury, Total | ND | | mg/kg | 0.078 | -- | 1 | 11/13/14 09:12 | 11/13/14 10:40 | EPA 7471B | 97,7471B | MC |
| Selenium, Total | ND | | mg/kg | 2.2 | -- | 1 | 11/13/14 17:02 | 11/14/14 10:31 | EPA 3050B | 97,6010C | JH |
| Silver, Total | ND | | mg/kg | 0.43 | -- | 1 | 11/13/14 17:02 | 11/14/14 10:31 | EPA 3050B | 97,6010C | JH |



Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1427194**Project Number:** Not Specified**Report Date:** 11/20/14**SAMPLE RESULTS**

Lab ID: L1427194-04

Date Collected: 11/11/14 10:08

Client ID: PE-47

Date Received: 11/12/14

Sample Location: WORCESTER, MA

Field Prep: Not Specified

Matrix: Solid

Percent Solids: 93%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|------------------------------------|--------|-----------|-------|-------|-----|-----------------|----------------|----------------|-------------|-------------------|---------|
| MCP Total Metals - Westborough Lab | | | | | | | | | | | |
| Arsenic, Total | 13 | | mg/kg | 0.40 | -- | 1 | 11/13/14 17:02 | 11/14/14 11:13 | EPA 3050B | 97,6010C | JH |
| Barium, Total | 56 | | mg/kg | 0.40 | -- | 1 | 11/13/14 17:02 | 11/14/14 11:13 | EPA 3050B | 97,6010C | JH |
| Cadmium, Total | ND | | mg/kg | 0.40 | -- | 1 | 11/13/14 17:02 | 11/14/14 11:13 | EPA 3050B | 97,6010C | JH |
| Chromium, Total | 10 | | mg/kg | 0.40 | -- | 1 | 11/13/14 17:02 | 11/14/14 11:13 | EPA 3050B | 97,6010C | JH |
| Lead, Total | ND | | mg/kg | 2.0 | -- | 1 | 11/13/14 17:02 | 11/14/14 11:13 | EPA 3050B | 97,6010C | JH |
| Mercury, Total | ND | | mg/kg | 0.068 | -- | 1 | 11/18/14 09:32 | 11/18/14 11:30 | EPA 7471B | 97,7471B | MC |
| Selenium, Total | ND | | mg/kg | 2.0 | -- | 1 | 11/13/14 17:02 | 11/14/14 11:13 | EPA 3050B | 97,6010C | JH |
| Silver, Total | ND | | mg/kg | 0.40 | -- | 1 | 11/13/14 17:02 | 11/14/14 11:13 | EPA 3050B | 97,6010C | JH |



Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1427194**Project Number:** Not Specified**Report Date:** 11/20/14**SAMPLE RESULTS**

Lab ID: L1427194-05

Date Collected: 11/11/14 10:07

Client ID: PE-48

Date Received: 11/12/14

Sample Location: WORCESTER, MA

Field Prep: Not Specified

Matrix: Solid

Percent Solids: 93%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|------------------------------------|--------|-----------|-------|-------|-----|-----------------|----------------|----------------|-------------|-------------------|---------|
| MCP Total Metals - Westborough Lab | | | | | | | | | | | |
| Arsenic, Total | 22 | | mg/kg | 0.41 | -- | 1 | 11/13/14 17:02 | 11/14/14 11:17 | EPA 3050B | 97,6010C | JH |
| Barium, Total | 50 | | mg/kg | 0.41 | -- | 1 | 11/13/14 17:02 | 11/14/14 11:17 | EPA 3050B | 97,6010C | JH |
| Cadmium, Total | ND | | mg/kg | 0.41 | -- | 1 | 11/13/14 17:02 | 11/14/14 11:17 | EPA 3050B | 97,6010C | JH |
| Chromium, Total | 9.2 | | mg/kg | 0.41 | -- | 1 | 11/13/14 17:02 | 11/14/14 11:17 | EPA 3050B | 97,6010C | JH |
| Lead, Total | ND | | mg/kg | 2.1 | -- | 1 | 11/13/14 17:02 | 11/14/14 11:17 | EPA 3050B | 97,6010C | JH |
| Mercury, Total | ND | | mg/kg | 0.071 | -- | 1 | 11/18/14 09:32 | 11/18/14 11:32 | EPA 7471B | 97,7471B | MC |
| Selenium, Total | ND | | mg/kg | 2.1 | -- | 1 | 11/13/14 17:02 | 11/14/14 11:17 | EPA 3050B | 97,6010C | JH |
| Silver, Total | ND | | mg/kg | 0.41 | -- | 1 | 11/13/14 17:02 | 11/14/14 11:17 | EPA 3050B | 97,6010C | JH |



Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1427194**Project Number:** Not Specified**Report Date:** 11/20/14**SAMPLE RESULTS**

Lab ID: L1427194-06

Date Collected: 11/11/14 09:36

Client ID: PE-49

Date Received: 11/12/14

Sample Location: WORCESTER, MA

Field Prep: Not Specified

Matrix: Solid

Percent Solids: 89%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|------------------------------------|--------|-----------|-------|-------|-----|-----------------|----------------|----------------|-------------|-------------------|---------|
| MCP Total Metals - Westborough Lab | | | | | | | | | | | |
| Arsenic, Total | 16 | | mg/kg | 0.43 | -- | 1 | 11/13/14 17:02 | 11/14/14 11:21 | EPA 3050B | 97,6010C | JH |
| Barium, Total | 77 | | mg/kg | 0.43 | -- | 1 | 11/13/14 17:02 | 11/14/14 11:21 | EPA 3050B | 97,6010C | JH |
| Cadmium, Total | ND | | mg/kg | 0.43 | -- | 1 | 11/13/14 17:02 | 11/14/14 11:21 | EPA 3050B | 97,6010C | JH |
| Chromium, Total | 14 | | mg/kg | 0.43 | -- | 1 | 11/13/14 17:02 | 11/14/14 11:21 | EPA 3050B | 97,6010C | JH |
| Lead, Total | 3.8 | | mg/kg | 2.2 | -- | 1 | 11/13/14 17:02 | 11/14/14 11:21 | EPA 3050B | 97,6010C | JH |
| Mercury, Total | ND | | mg/kg | 0.072 | -- | 1 | 11/18/14 09:32 | 11/18/14 11:38 | EPA 7471B | 97,7471B | MC |
| Selenium, Total | ND | | mg/kg | 2.2 | -- | 1 | 11/13/14 17:02 | 11/14/14 11:21 | EPA 3050B | 97,6010C | JH |
| Silver, Total | ND | | mg/kg | 0.43 | -- | 1 | 11/13/14 17:02 | 11/14/14 11:21 | EPA 3050B | 97,6010C | JH |



Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1427194**Project Number:** Not Specified**Report Date:** 11/20/14**SAMPLE RESULTS**

Lab ID: L1427194-07

Date Collected: 11/11/14 09:29

Client ID: PE-50

Date Received: 11/12/14

Sample Location: WORCESTER, MA

Field Prep: Not Specified

Matrix: Solid

Percent Solids: 90%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|------------------------------------|--------|-----------|-------|-------|-----|-----------------|----------------|----------------|-------------|-------------------|---------|
| MCP Total Metals - Westborough Lab | | | | | | | | | | | |
| Arsenic, Total | 20 | | mg/kg | 0.43 | -- | 1 | 11/13/14 17:02 | 11/14/14 11:25 | EPA 3050B | 97,6010C | JH |
| Barium, Total | 50 | | mg/kg | 0.43 | -- | 1 | 11/13/14 17:02 | 11/14/14 11:25 | EPA 3050B | 97,6010C | JH |
| Cadmium, Total | ND | | mg/kg | 0.43 | -- | 1 | 11/13/14 17:02 | 11/14/14 11:25 | EPA 3050B | 97,6010C | JH |
| Chromium, Total | 15 | | mg/kg | 0.43 | -- | 1 | 11/13/14 17:02 | 11/14/14 11:25 | EPA 3050B | 97,6010C | JH |
| Lead, Total | 2.6 | | mg/kg | 2.2 | -- | 1 | 11/13/14 17:02 | 11/14/14 11:25 | EPA 3050B | 97,6010C | JH |
| Mercury, Total | ND | | mg/kg | 0.077 | -- | 1 | 11/18/14 09:32 | 11/18/14 11:40 | EPA 7471B | 97,7471B | MC |
| Selenium, Total | ND | | mg/kg | 2.2 | -- | 1 | 11/13/14 17:02 | 11/14/14 11:25 | EPA 3050B | 97,6010C | JH |
| Silver, Total | ND | | mg/kg | 0.43 | -- | 1 | 11/13/14 17:02 | 11/14/14 11:25 | EPA 3050B | 97,6010C | JH |



Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1427194**Project Number:** Not Specified**Report Date:** 11/20/14**SAMPLE RESULTS**

Lab ID: L1427194-08

Date Collected: 11/11/14 09:17

Client ID: PE-51

Date Received: 11/12/14

Sample Location: WORCESTER, MA

Field Prep: Not Specified

Matrix: Solid

Percent Solids: 91%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|------------------------------------|--------|-----------|-------|-------|-----|-----------------|----------------|----------------|-------------|-------------------|---------|
| MCP Total Metals - Westborough Lab | | | | | | | | | | | |
| Arsenic, Total | 28 | | mg/kg | 0.43 | -- | 1 | 11/13/14 17:02 | 11/14/14 11:29 | EPA 3050B | 97,6010C | JH |
| Barium, Total | 21 | | mg/kg | 0.43 | -- | 1 | 11/13/14 17:02 | 11/14/14 11:29 | EPA 3050B | 97,6010C | JH |
| Cadmium, Total | ND | | mg/kg | 0.43 | -- | 1 | 11/13/14 17:02 | 11/14/14 11:29 | EPA 3050B | 97,6010C | JH |
| Chromium, Total | 5.5 | | mg/kg | 0.43 | -- | 1 | 11/13/14 17:02 | 11/14/14 11:29 | EPA 3050B | 97,6010C | JH |
| Lead, Total | ND | | mg/kg | 2.1 | -- | 1 | 11/13/14 17:02 | 11/14/14 11:29 | EPA 3050B | 97,6010C | JH |
| Mercury, Total | ND | | mg/kg | 0.071 | -- | 1 | 11/18/14 09:32 | 11/18/14 11:42 | EPA 7471B | 97,7471B | MC |
| Selenium, Total | ND | | mg/kg | 2.1 | -- | 1 | 11/13/14 17:02 | 11/14/14 11:29 | EPA 3050B | 97,6010C | JH |
| Silver, Total | ND | | mg/kg | 0.43 | -- | 1 | 11/13/14 17:02 | 11/14/14 11:29 | EPA 3050B | 97,6010C | JH |



Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1427194**Project Number:** Not Specified**Report Date:** 11/20/14**SAMPLE RESULTS**

Lab ID: L1427194-09

Date Collected: 11/11/14 09:20

Client ID: PE-52

Date Received: 11/12/14

Sample Location: WORCESTER, MA

Field Prep: Not Specified

Matrix: Solid

Percent Solids: 90%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|------------------------------------|--------|-----------|-------|-------|-----|-----------------|----------------|----------------|-------------|-------------------|---------|
| MCP Total Metals - Westborough Lab | | | | | | | | | | | |
| Arsenic, Total | 23 | | mg/kg | 0.44 | -- | 1 | 11/13/14 17:02 | 11/14/14 11:48 | EPA 3050B | 97,6010C | JH |
| Barium, Total | 61 | | mg/kg | 0.44 | -- | 1 | 11/13/14 17:02 | 11/14/14 11:48 | EPA 3050B | 97,6010C | JH |
| Cadmium, Total | ND | | mg/kg | 0.44 | -- | 1 | 11/13/14 17:02 | 11/14/14 11:48 | EPA 3050B | 97,6010C | JH |
| Chromium, Total | 15 | | mg/kg | 0.44 | -- | 1 | 11/13/14 17:02 | 11/14/14 11:48 | EPA 3050B | 97,6010C | JH |
| Lead, Total | 2.6 | | mg/kg | 2.2 | -- | 1 | 11/13/14 17:02 | 11/14/14 11:48 | EPA 3050B | 97,6010C | JH |
| Mercury, Total | ND | | mg/kg | 0.075 | -- | 1 | 11/18/14 09:32 | 11/18/14 11:43 | EPA 7471B | 97,7471B | MC |
| Selenium, Total | ND | | mg/kg | 2.2 | -- | 1 | 11/13/14 17:02 | 11/14/14 11:48 | EPA 3050B | 97,6010C | JH |
| Silver, Total | ND | | mg/kg | 0.44 | -- | 1 | 11/13/14 17:02 | 11/14/14 11:48 | EPA 3050B | 97,6010C | JH |



Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1427194**Project Number:** Not Specified**Report Date:** 11/20/14**SAMPLE RESULTS**

Lab ID: L1427194-10

Date Collected: 11/11/14 09:24

Client ID: PE-53

Date Received: 11/12/14

Sample Location: WORCESTER, MA

Field Prep: Not Specified

Matrix: Solid

Percent Solids: 90%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|------------------------------------|--------|-----------|-------|-------|-----|-----------------|----------------|----------------|-------------|-------------------|---------|
| MCP Total Metals - Westborough Lab | | | | | | | | | | | |
| Arsenic, Total | 17 | | mg/kg | 0.42 | -- | 1 | 11/13/14 17:02 | 11/14/14 11:51 | EPA 3050B | 97,6010C | JH |
| Barium, Total | 48 | | mg/kg | 0.42 | -- | 1 | 11/13/14 17:02 | 11/14/14 11:51 | EPA 3050B | 97,6010C | JH |
| Cadmium, Total | ND | | mg/kg | 0.42 | -- | 1 | 11/13/14 17:02 | 11/14/14 11:51 | EPA 3050B | 97,6010C | JH |
| Chromium, Total | 12 | | mg/kg | 0.42 | -- | 1 | 11/13/14 17:02 | 11/14/14 11:51 | EPA 3050B | 97,6010C | JH |
| Lead, Total | ND | | mg/kg | 2.1 | -- | 1 | 11/13/14 17:02 | 11/14/14 11:51 | EPA 3050B | 97,6010C | JH |
| Mercury, Total | ND | | mg/kg | 0.083 | -- | 1 | 11/13/14 09:12 | 11/13/14 11:03 | EPA 7471B | 97,7471B | MC |
| Selenium, Total | ND | | mg/kg | 2.1 | -- | 1 | 11/13/14 17:02 | 11/14/14 11:51 | EPA 3050B | 97,6010C | JH |
| Silver, Total | ND | | mg/kg | 0.42 | -- | 1 | 11/13/14 17:02 | 11/14/14 11:51 | EPA 3050B | 97,6010C | JH |



Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1427194**Project Number:** Not Specified**Report Date:** 11/20/14**SAMPLE RESULTS****Lab ID:** L1427194-11**Date Collected:** 11/11/14 09:41**Client ID:** PE-54**Date Received:** 11/12/14**Sample Location:** WORCESTER, MA**Field Prep:** Not Specified**Matrix:** Solid**Percent Solids:** 90%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|------------------------------------|--------|-----------|-------|-------|-----|-----------------|----------------|----------------|-------------|-------------------|---------|
| MCP Total Metals - Westborough Lab | | | | | | | | | | | |
| Arsenic, Total | 24 | | mg/kg | 0.42 | -- | 1 | 11/13/14 17:02 | 11/14/14 11:55 | EPA 3050B | 97,6010C | JH |
| Barium, Total | 85 | | mg/kg | 0.42 | -- | 1 | 11/13/14 17:02 | 11/14/14 11:55 | EPA 3050B | 97,6010C | JH |
| Cadmium, Total | ND | | mg/kg | 0.42 | -- | 1 | 11/13/14 17:02 | 11/14/14 11:55 | EPA 3050B | 97,6010C | JH |
| Chromium, Total | 16 | | mg/kg | 0.42 | -- | 1 | 11/13/14 17:02 | 11/14/14 11:55 | EPA 3050B | 97,6010C | JH |
| Lead, Total | 4.0 | | mg/kg | 2.1 | -- | 1 | 11/13/14 17:02 | 11/14/14 11:55 | EPA 3050B | 97,6010C | JH |
| Mercury, Total | ND | | mg/kg | 0.072 | -- | 1 | 11/13/14 09:12 | 11/13/14 11:09 | EPA 7471B | 97,7471B | MC |
| Selenium, Total | ND | | mg/kg | 2.1 | -- | 1 | 11/13/14 17:02 | 11/14/14 11:55 | EPA 3050B | 97,6010C | JH |
| Silver, Total | ND | | mg/kg | 0.42 | -- | 1 | 11/13/14 17:02 | 11/14/14 11:55 | EPA 3050B | 97,6010C | JH |



Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1427194**Project Number:** Not Specified**Report Date:** 11/20/14**SAMPLE RESULTS**

Lab ID: L1427194-12

Date Collected: 11/11/14 09:44

Client ID: PE-55

Date Received: 11/12/14

Sample Location: WORCESTER, MA

Field Prep: Not Specified

Matrix: Solid

Percent Solids: 92%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|------------------------------------|--------|-----------|-------|-------|-----|-----------------|----------------|----------------|-------------|-------------------|---------|
| MCP Total Metals - Westborough Lab | | | | | | | | | | | |
| Arsenic, Total | 17 | | mg/kg | 0.42 | -- | 1 | 11/13/14 17:02 | 11/14/14 11:59 | EPA 3050B | 97,6010C | JH |
| Barium, Total | 67 | | mg/kg | 0.42 | -- | 1 | 11/13/14 17:02 | 11/14/14 11:59 | EPA 3050B | 97,6010C | JH |
| Cadmium, Total | ND | | mg/kg | 0.42 | -- | 1 | 11/13/14 17:02 | 11/14/14 11:59 | EPA 3050B | 97,6010C | JH |
| Chromium, Total | 12 | | mg/kg | 0.42 | -- | 1 | 11/13/14 17:02 | 11/14/14 11:59 | EPA 3050B | 97,6010C | JH |
| Lead, Total | 3.0 | | mg/kg | 2.1 | -- | 1 | 11/13/14 17:02 | 11/14/14 11:59 | EPA 3050B | 97,6010C | JH |
| Mercury, Total | ND | | mg/kg | 0.075 | -- | 1 | 11/13/14 09:12 | 11/13/14 11:11 | EPA 7471B | 97,7471B | MC |
| Selenium, Total | ND | | mg/kg | 2.1 | -- | 1 | 11/13/14 17:02 | 11/14/14 11:59 | EPA 3050B | 97,6010C | JH |
| Silver, Total | ND | | mg/kg | 0.42 | -- | 1 | 11/13/14 17:02 | 11/14/14 11:59 | EPA 3050B | 97,6010C | JH |



Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1427194**Project Number:** Not Specified**Report Date:** 11/20/14**SAMPLE RESULTS**

Lab ID: L1427194-13

Date Collected: 11/11/14 09:46

Client ID: PE-56

Date Received: 11/12/14

Sample Location: WORCESTER, MA

Field Prep: Not Specified

Matrix: Solid

Percent Solids: 94%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|------------------------------------|--------|-----------|-------|-------|-----|-----------------|----------------|----------------|-------------|-------------------|---------|
| MCP Total Metals - Westborough Lab | | | | | | | | | | | |
| Arsenic, Total | 18 | | mg/kg | 0.40 | -- | 1 | 11/13/14 17:02 | 11/14/14 12:03 | EPA 3050B | 97,6010C | JH |
| Barium, Total | 58 | | mg/kg | 0.40 | -- | 1 | 11/13/14 17:02 | 11/14/14 12:03 | EPA 3050B | 97,6010C | JH |
| Cadmium, Total | ND | | mg/kg | 0.40 | -- | 1 | 11/13/14 17:02 | 11/14/14 12:03 | EPA 3050B | 97,6010C | JH |
| Chromium, Total | 10 | | mg/kg | 0.40 | -- | 1 | 11/13/14 17:02 | 11/14/14 12:03 | EPA 3050B | 97,6010C | JH |
| Lead, Total | ND | | mg/kg | 2.0 | -- | 1 | 11/13/14 17:02 | 11/14/14 12:03 | EPA 3050B | 97,6010C | JH |
| Mercury, Total | ND | | mg/kg | 0.075 | -- | 1 | 11/13/14 09:12 | 11/13/14 11:13 | EPA 7471B | 97,7471B | MC |
| Selenium, Total | ND | | mg/kg | 2.0 | -- | 1 | 11/13/14 17:02 | 11/14/14 12:03 | EPA 3050B | 97,6010C | JH |
| Silver, Total | ND | | mg/kg | 0.40 | -- | 1 | 11/13/14 17:02 | 11/14/14 12:03 | EPA 3050B | 97,6010C | JH |



Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1427194**Project Number:** Not Specified**Report Date:** 11/20/14**SAMPLE RESULTS****Lab ID:** L1427194-14**Date Collected:** 11/11/14 09:38**Client ID:** PE-57**Date Received:** 11/12/14**Sample Location:** WORCESTER, MA**Field Prep:** Not Specified**Matrix:** Solid**Percent Solids:** 89%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|------------------------------------|--------|-----------|-------|-------|-----|-----------------|----------------|----------------|-------------|-------------------|---------|
| MCP Total Metals - Westborough Lab | | | | | | | | | | | |
| Arsenic, Total | 18 | | mg/kg | 0.44 | -- | 1 | 11/13/14 17:02 | 11/14/14 12:07 | EPA 3050B | 97,6010C | JH |
| Barium, Total | 71 | | mg/kg | 0.44 | -- | 1 | 11/13/14 17:02 | 11/14/14 12:07 | EPA 3050B | 97,6010C | JH |
| Cadmium, Total | ND | | mg/kg | 0.44 | -- | 1 | 11/13/14 17:02 | 11/14/14 12:07 | EPA 3050B | 97,6010C | JH |
| Chromium, Total | 15 | | mg/kg | 0.44 | -- | 1 | 11/13/14 17:02 | 11/14/14 12:07 | EPA 3050B | 97,6010C | JH |
| Lead, Total | 3.9 | | mg/kg | 2.2 | -- | 1 | 11/13/14 17:02 | 11/14/14 12:07 | EPA 3050B | 97,6010C | JH |
| Mercury, Total | ND | | mg/kg | 0.077 | -- | 1 | 11/13/14 09:12 | 11/13/14 11:14 | EPA 7471B | 97,7471B | MC |
| Selenium, Total | ND | | mg/kg | 2.2 | -- | 1 | 11/13/14 17:02 | 11/14/14 12:07 | EPA 3050B | 97,6010C | JH |
| Silver, Total | ND | | mg/kg | 0.44 | -- | 1 | 11/13/14 17:02 | 11/14/14 12:07 | EPA 3050B | 97,6010C | JH |



Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1427194**Project Number:** Not Specified**Report Date:** 11/20/14**SAMPLE RESULTS**

Lab ID: L1427194-15

Date Collected: 11/11/14 09:39

Client ID: PE-58

Date Received: 11/12/14

Sample Location: WORCESTER, MA

Field Prep: Not Specified

Matrix: Solid

Percent Solids: 92%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|------------------------------------|--------|-----------|-------|-------|-----|-----------------|----------------|----------------|-------------|-------------------|---------|
| MCP Total Metals - Westborough Lab | | | | | | | | | | | |
| Arsenic, Total | 18 | | mg/kg | 0.43 | -- | 1 | 11/13/14 17:02 | 11/14/14 12:11 | EPA 3050B | 97,6010C | JH |
| Barium, Total | 78 | | mg/kg | 0.43 | -- | 1 | 11/13/14 17:02 | 11/14/14 12:11 | EPA 3050B | 97,6010C | JH |
| Cadmium, Total | ND | | mg/kg | 0.43 | -- | 1 | 11/13/14 17:02 | 11/14/14 12:11 | EPA 3050B | 97,6010C | JH |
| Chromium, Total | 14 | | mg/kg | 0.43 | -- | 1 | 11/13/14 17:02 | 11/14/14 12:11 | EPA 3050B | 97,6010C | JH |
| Lead, Total | 3.0 | | mg/kg | 2.1 | -- | 1 | 11/13/14 17:02 | 11/14/14 12:11 | EPA 3050B | 97,6010C | JH |
| Mercury, Total | ND | | mg/kg | 0.070 | -- | 1 | 11/13/14 09:12 | 11/13/14 11:16 | EPA 7471B | 97,7471B | MC |
| Selenium, Total | ND | | mg/kg | 2.1 | -- | 1 | 11/13/14 17:02 | 11/14/14 12:11 | EPA 3050B | 97,6010C | JH |
| Silver, Total | ND | | mg/kg | 0.43 | -- | 1 | 11/13/14 17:02 | 11/14/14 12:11 | EPA 3050B | 97,6010C | JH |



Project Name: HOLY CROSS FIELDHOUSE

Lab Number: L1427194

Project Number: Not Specified

Report Date: 11/20/14

SAMPLE RESULTS

Lab ID: L1427194-16

Date Collected: 11/11/14 09:40

Client ID: PE-59

Date Received: 11/12/14

Sample Location: WORCESTER, MA

Field Prep: Not Specified

Matrix: Solid

Percent Solids: 89%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|------------------------------------|--------|-----------|-------|-------|-----|-----------------|----------------|----------------|-------------|-------------------|---------|
| MCP Total Metals - Westborough Lab | | | | | | | | | | | |
| Arsenic, Total | 21 | | mg/kg | 0.44 | -- | 1 | 11/13/14 17:02 | 11/14/14 12:15 | EPA 3050B | 97,6010C | JH |
| Barium, Total | 79 | | mg/kg | 0.44 | -- | 1 | 11/13/14 17:02 | 11/14/14 12:15 | EPA 3050B | 97,6010C | JH |
| Cadmium, Total | ND | | mg/kg | 0.44 | -- | 1 | 11/13/14 17:02 | 11/14/14 12:15 | EPA 3050B | 97,6010C | JH |
| Chromium, Total | 15 | | mg/kg | 0.44 | -- | 1 | 11/13/14 17:02 | 11/14/14 12:15 | EPA 3050B | 97,6010C | JH |
| Lead, Total | 6.3 | | mg/kg | 2.2 | -- | 1 | 11/13/14 17:02 | 11/14/14 12:15 | EPA 3050B | 97,6010C | JH |
| Mercury, Total | ND | | mg/kg | 0.076 | -- | 1 | 11/13/14 09:12 | 11/13/14 11:18 | EPA 7471B | 97,7471B | MC |
| Selenium, Total | ND | | mg/kg | 2.2 | -- | 1 | 11/13/14 17:02 | 11/14/14 12:15 | EPA 3050B | 97,6010C | JH |
| Silver, Total | ND | | mg/kg | 0.44 | -- | 1 | 11/13/14 17:02 | 11/14/14 12:15 | EPA 3050B | 97,6010C | JH |



Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1427194**Project Number:** Not Specified**Report Date:** 11/20/14**SAMPLE RESULTS**

Lab ID: L1427194-17

Date Collected: 11/11/14 09:52

Client ID: PE-60

Date Received: 11/12/14

Sample Location: WORCESTER, MA

Field Prep: Not Specified

Matrix: Solid

Percent Solids: 94%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|------------------------------------|--------|-----------|-------|-------|-----|-----------------|----------------|----------------|-------------|-------------------|---------|
| MCP Total Metals - Westborough Lab | | | | | | | | | | | |
| Arsenic, Total | 17 | | mg/kg | 0.42 | -- | 1 | 11/13/14 17:02 | 11/14/14 12:18 | EPA 3050B | 97,6010C | JH |
| Barium, Total | 56 | | mg/kg | 0.42 | -- | 1 | 11/13/14 17:02 | 11/14/14 12:18 | EPA 3050B | 97,6010C | JH |
| Cadmium, Total | ND | | mg/kg | 0.42 | -- | 1 | 11/13/14 17:02 | 11/14/14 12:18 | EPA 3050B | 97,6010C | JH |
| Chromium, Total | 14 | | mg/kg | 0.42 | -- | 1 | 11/13/14 17:02 | 11/14/14 12:18 | EPA 3050B | 97,6010C | JH |
| Lead, Total | 2.7 | | mg/kg | 2.1 | -- | 1 | 11/13/14 17:02 | 11/14/14 12:18 | EPA 3050B | 97,6010C | JH |
| Mercury, Total | ND | | mg/kg | 0.070 | -- | 1 | 11/13/14 09:12 | 11/13/14 11:20 | EPA 7471B | 97,7471B | MC |
| Selenium, Total | ND | | mg/kg | 2.1 | -- | 1 | 11/13/14 17:02 | 11/14/14 12:18 | EPA 3050B | 97,6010C | JH |
| Silver, Total | ND | | mg/kg | 0.42 | -- | 1 | 11/13/14 17:02 | 11/14/14 12:18 | EPA 3050B | 97,6010C | JH |



Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1427194**Project Number:** Not Specified**Report Date:** 11/20/14**SAMPLE RESULTS**

Lab ID: L1427194-18

Date Collected: 11/11/14 09:50

Client ID: PE-61

Date Received: 11/12/14

Sample Location: WORCESTER, MA

Field Prep: Not Specified

Matrix: Solid

Percent Solids: 94%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|------------------------------------|--------|-----------|-------|-------|-----|-----------------|----------------|----------------|-------------|-------------------|---------|
| MCP Total Metals - Westborough Lab | | | | | | | | | | | |
| Arsenic, Total | 18 | | mg/kg | 0.40 | -- | 1 | 11/13/14 17:02 | 11/14/14 12:22 | EPA 3050B | 97,6010C | JH |
| Barium, Total | 70 | | mg/kg | 0.40 | -- | 1 | 11/13/14 17:02 | 11/14/14 12:22 | EPA 3050B | 97,6010C | JH |
| Cadmium, Total | ND | | mg/kg | 0.40 | -- | 1 | 11/13/14 17:02 | 11/14/14 12:22 | EPA 3050B | 97,6010C | JH |
| Chromium, Total | 11 | | mg/kg | 0.40 | -- | 1 | 11/13/14 17:02 | 11/14/14 12:22 | EPA 3050B | 97,6010C | JH |
| Lead, Total | ND | | mg/kg | 2.0 | -- | 1 | 11/13/14 17:02 | 11/14/14 12:22 | EPA 3050B | 97,6010C | JH |
| Mercury, Total | ND | | mg/kg | 0.067 | -- | 1 | 11/18/14 09:32 | 11/18/14 11:45 | EPA 7471B | 97,7471B | MC |
| Selenium, Total | ND | | mg/kg | 2.0 | -- | 1 | 11/13/14 17:02 | 11/14/14 12:22 | EPA 3050B | 97,6010C | JH |
| Silver, Total | ND | | mg/kg | 0.40 | -- | 1 | 11/13/14 17:02 | 11/14/14 12:22 | EPA 3050B | 97,6010C | JH |



Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1427194**Project Number:** Not Specified**Report Date:** 11/20/14**SAMPLE RESULTS****Lab ID:** L1427194-19**Date Collected:** 11/11/14 09:48**Client ID:** PE-62**Date Received:** 11/12/14**Sample Location:** WORCESTER, MA**Field Prep:** Not Specified**Matrix:** Solid**Percent Solids:** 90%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|------------------------------------|--------|-----------|-------|-------|-----|-----------------|----------------|----------------|-------------|-------------------|---------|
| MCP Total Metals - Westborough Lab | | | | | | | | | | | |
| Arsenic, Total | 18 | | mg/kg | 0.43 | -- | 1 | 11/13/14 17:02 | 11/14/14 12:39 | EPA 3050B | 97,6010C | JH |
| Barium, Total | 62 | | mg/kg | 0.43 | -- | 1 | 11/13/14 17:02 | 11/14/14 12:39 | EPA 3050B | 97,6010C | JH |
| Cadmium, Total | ND | | mg/kg | 0.43 | -- | 1 | 11/13/14 17:02 | 11/14/14 12:39 | EPA 3050B | 97,6010C | JH |
| Chromium, Total | 15 | | mg/kg | 0.43 | -- | 1 | 11/13/14 17:02 | 11/14/14 12:39 | EPA 3050B | 97,6010C | JH |
| Lead, Total | 11 | | mg/kg | 2.2 | -- | 1 | 11/13/14 17:02 | 11/14/14 12:39 | EPA 3050B | 97,6010C | JH |
| Mercury, Total | ND | | mg/kg | 0.075 | -- | 1 | 11/18/14 09:32 | 11/18/14 11:47 | EPA 7471B | 97,7471B | MC |
| Selenium, Total | ND | | mg/kg | 2.2 | -- | 1 | 11/13/14 17:02 | 11/14/14 12:39 | EPA 3050B | 97,6010C | JH |
| Silver, Total | ND | | mg/kg | 0.43 | -- | 1 | 11/13/14 17:02 | 11/14/14 12:39 | EPA 3050B | 97,6010C | JH |



Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1427194**Project Number:** Not Specified**Report Date:** 11/20/14**SAMPLE RESULTS**

Lab ID: L1427194-20

Date Collected: 11/11/14 10:04

Client ID: PE-63

Date Received: 11/12/14

Sample Location: WORCESTER, MA

Field Prep: Not Specified

Matrix: Solid

Percent Solids: 90%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|------------------------------------|--------|-----------|-------|-------|-----|-----------------|----------------|----------------|-------------|-------------------|---------|
| MCP Total Metals - Westborough Lab | | | | | | | | | | | |
| Arsenic, Total | 16 | | mg/kg | 0.44 | -- | 1 | 11/13/14 17:02 | 11/14/14 12:43 | EPA 3050B | 97,6010C | JH |
| Barium, Total | 63 | | mg/kg | 0.44 | -- | 1 | 11/13/14 17:02 | 11/14/14 12:43 | EPA 3050B | 97,6010C | JH |
| Cadmium, Total | ND | | mg/kg | 0.44 | -- | 1 | 11/13/14 17:02 | 11/14/14 12:43 | EPA 3050B | 97,6010C | JH |
| Chromium, Total | 14 | | mg/kg | 0.44 | -- | 1 | 11/13/14 17:02 | 11/14/14 12:43 | EPA 3050B | 97,6010C | JH |
| Lead, Total | 4.9 | | mg/kg | 2.2 | -- | 1 | 11/13/14 17:02 | 11/14/14 12:43 | EPA 3050B | 97,6010C | JH |
| Mercury, Total | ND | | mg/kg | 0.070 | -- | 1 | 11/18/14 09:32 | 11/18/14 11:49 | EPA 7471B | 97,7471B | MC |
| Selenium, Total | ND | | mg/kg | 2.2 | -- | 1 | 11/13/14 17:02 | 11/14/14 12:43 | EPA 3050B | 97,6010C | JH |
| Silver, Total | ND | | mg/kg | 0.44 | -- | 1 | 11/13/14 17:02 | 11/14/14 12:43 | EPA 3050B | 97,6010C | JH |



Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1427194**Project Number:** Not Specified**Report Date:** 11/20/14**SAMPLE RESULTS**

Lab ID: L1427194-21

Date Collected: 11/11/14 09:59

Client ID: PE-64

Date Received: 11/12/14

Sample Location: WORCESTER, MA

Field Prep: Not Specified

Matrix: Solid

Percent Solids: 92%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|------------------------------------|--------|-----------|-------|-------|-----|-----------------|----------------|----------------|-------------|-------------------|---------|
| MCP Total Metals - Westborough Lab | | | | | | | | | | | |
| Arsenic, Total | 19 | | mg/kg | 0.43 | -- | 1 | 11/13/14 19:05 | 11/14/14 12:47 | EPA 3050B | 97,6010C | JH |
| Barium, Total | 62 | | mg/kg | 0.43 | -- | 1 | 11/13/14 19:05 | 11/14/14 12:47 | EPA 3050B | 97,6010C | JH |
| Cadmium, Total | ND | | mg/kg | 0.43 | -- | 1 | 11/13/14 19:05 | 11/14/14 12:47 | EPA 3050B | 97,6010C | JH |
| Chromium, Total | 13 | | mg/kg | 0.43 | -- | 1 | 11/13/14 19:05 | 11/14/14 12:47 | EPA 3050B | 97,6010C | JH |
| Lead, Total | ND | | mg/kg | 2.1 | -- | 1 | 11/13/14 19:05 | 11/14/14 12:47 | EPA 3050B | 97,6010C | JH |
| Mercury, Total | ND | | mg/kg | 0.074 | -- | 1 | 11/18/14 09:32 | 11/18/14 11:51 | EPA 7471B | 97,7471B | MC |
| Selenium, Total | ND | | mg/kg | 2.1 | -- | 1 | 11/13/14 19:05 | 11/14/14 12:47 | EPA 3050B | 97,6010C | JH |
| Silver, Total | ND | | mg/kg | 0.43 | -- | 1 | 11/13/14 19:05 | 11/14/14 12:47 | EPA 3050B | 97,6010C | JH |



Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1427194**Project Number:** Not Specified**Report Date:** 11/20/14**SAMPLE RESULTS**

Lab ID: L1427194-22

Date Collected: 11/11/14 09:58

Client ID: PE-65

Date Received: 11/12/14

Sample Location: WORCESTER, MA

Field Prep: Not Specified

Matrix: Solid

Percent Solids: 91%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|------------------------------------|--------|-----------|-------|-------|-----|-----------------|----------------|----------------|-------------|-------------------|---------|
| MCP Total Metals - Westborough Lab | | | | | | | | | | | |
| Arsenic, Total | 19 | | mg/kg | 0.42 | -- | 1 | 11/13/14 19:05 | 11/14/14 12:51 | EPA 3050B | 97,6010C | JH |
| Barium, Total | 41 | | mg/kg | 0.42 | -- | 1 | 11/13/14 19:05 | 11/14/14 12:51 | EPA 3050B | 97,6010C | JH |
| Cadmium, Total | ND | | mg/kg | 0.42 | -- | 1 | 11/13/14 19:05 | 11/14/14 12:51 | EPA 3050B | 97,6010C | JH |
| Chromium, Total | 10 | | mg/kg | 0.42 | -- | 1 | 11/13/14 19:05 | 11/14/14 12:51 | EPA 3050B | 97,6010C | JH |
| Lead, Total | 2.4 | | mg/kg | 2.1 | -- | 1 | 11/13/14 19:05 | 11/14/14 12:51 | EPA 3050B | 97,6010C | JH |
| Mercury, Total | ND | | mg/kg | 0.073 | -- | 1 | 11/18/14 09:32 | 11/18/14 11:53 | EPA 7471B | 97,7471B | MC |
| Selenium, Total | ND | | mg/kg | 2.1 | -- | 1 | 11/13/14 19:05 | 11/14/14 12:51 | EPA 3050B | 97,6010C | JH |
| Silver, Total | ND | | mg/kg | 0.42 | -- | 1 | 11/13/14 19:05 | 11/14/14 12:51 | EPA 3050B | 97,6010C | JH |



Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1427194**Project Number:** Not Specified**Report Date:** 11/20/14**SAMPLE RESULTS**

Lab ID: L1427194-23

Date Collected: 11/11/14 10:10

Client ID: PE-244

Date Received: 11/12/14

Sample Location: WORCESTER, MA

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 91%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|------------------------------------|--------|-----------|-------|-------|-----|-----------------|----------------|----------------|-------------|-------------------|---------|
| MCP Total Metals - Westborough Lab | | | | | | | | | | | |
| Arsenic, Total | 18 | | mg/kg | 0.41 | -- | 1 | 11/13/14 19:05 | 11/14/14 12:54 | EPA 3050B | 97,6010C | JH |
| Barium, Total | 43 | | mg/kg | 0.41 | -- | 1 | 11/13/14 19:05 | 11/14/14 12:54 | EPA 3050B | 97,6010C | JH |
| Cadmium, Total | ND | | mg/kg | 0.41 | -- | 1 | 11/13/14 19:05 | 11/14/14 12:54 | EPA 3050B | 97,6010C | JH |
| Chromium, Total | 22 | | mg/kg | 0.41 | -- | 1 | 11/13/14 19:05 | 11/14/14 12:54 | EPA 3050B | 97,6010C | JH |
| Lead, Total | 5.8 | | mg/kg | 2.1 | -- | 1 | 11/13/14 19:05 | 11/14/14 12:54 | EPA 3050B | 97,6010C | JH |
| Mercury, Total | ND | | mg/kg | 0.074 | -- | 1 | 11/18/14 09:32 | 11/18/14 11:55 | EPA 7471B | 97,7471B | MC |
| Selenium, Total | ND | | mg/kg | 2.1 | -- | 1 | 11/13/14 19:05 | 11/14/14 12:54 | EPA 3050B | 97,6010C | JH |
| Silver, Total | ND | | mg/kg | 0.41 | -- | 1 | 11/13/14 19:05 | 11/14/14 12:54 | EPA 3050B | 97,6010C | JH |



Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1427194**Project Number:** Not Specified**Report Date:** 11/20/14**SAMPLE RESULTS**

Lab ID: L1427194-24

Date Collected: 11/11/14 09:33

Client ID: PE-246

Date Received: 11/12/14

Sample Location: WORCESTER, MA

Field Prep: Not Specified

Matrix: Solid

Percent Solids: 88%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|------------------------------------|--------|-----------|-------|-------|-----|-----------------|----------------|----------------|-------------|-------------------|---------|
| MCP Total Metals - Westborough Lab | | | | | | | | | | | |
| Arsenic, Total | 21 | | mg/kg | 0.45 | -- | 1 | 11/13/14 19:05 | 11/14/14 14:01 | EPA 3050B | 97,6010C | JH |
| Barium, Total | 80 | | mg/kg | 0.45 | -- | 1 | 11/13/14 19:05 | 11/14/14 14:01 | EPA 3050B | 97,6010C | JH |
| Cadmium, Total | ND | | mg/kg | 0.45 | -- | 1 | 11/13/14 19:05 | 11/14/14 14:01 | EPA 3050B | 97,6010C | JH |
| Chromium, Total | 16 | | mg/kg | 0.45 | -- | 1 | 11/13/14 19:05 | 11/14/14 14:01 | EPA 3050B | 97,6010C | JH |
| Lead, Total | 3.8 | | mg/kg | 2.2 | -- | 1 | 11/13/14 19:05 | 11/14/14 14:01 | EPA 3050B | 97,6010C | JH |
| Mercury, Total | ND | | mg/kg | 0.079 | -- | 1 | 11/18/14 09:32 | 11/18/14 12:01 | EPA 7471B | 97,7471B | MC |
| Selenium, Total | ND | | mg/kg | 2.2 | -- | 1 | 11/13/14 19:05 | 11/14/14 14:01 | EPA 3050B | 97,6010C | JH |
| Silver, Total | ND | | mg/kg | 0.45 | -- | 1 | 11/13/14 19:05 | 11/14/14 14:01 | EPA 3050B | 97,6010C | JH |



Project Name: HOLY CROSS FIELDHOUSE

Lab Number: L1427194

Project Number: Not Specified

Report Date: 11/20/14

Method Blank Analysis Batch Quality Control

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|---|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| MCP Total Metals - Westborough Lab for sample(s): 10-17 Batch: WG740084-1 | | | | | | | | | | |
| Mercury, Total | ND | | mg/kg | 0.083 | -- | 1 | 11/13/14 09:12 | 11/13/14 10:49 | 97,7471B | MC |

Prep Information

Digestion Method: EPA 7471B

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|--|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| MCP Total Metals - Westborough Lab for sample(s): 01 Batch: WG740085-1 | | | | | | | | | | |
| Mercury, Total | ND | | mg/kg | 0.083 | -- | 1 | 11/13/14 09:12 | 11/13/14 10:22 | 97,7471B | MC |

Prep Information

Digestion Method: EPA 7471B

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|--|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| MCP Total Metals - Westborough Lab for sample(s): 03 Batch: WG740086-1 | | | | | | | | | | |
| Mercury, Total | ND | | mg/kg | 0.083 | -- | 1 | 11/13/14 09:12 | 11/13/14 10:34 | 97,7471B | MC |

Prep Information

Digestion Method: EPA 7471B

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|---|--------|-----------|-------|------|-----|--------------------|------------------|------------------|----------------------|---------|
| MCP Total Metals - Westborough Lab for sample(s): 01-20 Batch: WG740317-1 | | | | | | | | | | |
| Arsenic, Total | ND | | mg/kg | 0.40 | -- | 1 | 11/13/14 17:02 | 11/14/14 10:08 | 97,6010C | JH |
| Barium, Total | ND | | mg/kg | 0.40 | -- | 1 | 11/13/14 17:02 | 11/14/14 10:08 | 97,6010C | JH |
| Cadmium, Total | ND | | mg/kg | 0.40 | -- | 1 | 11/13/14 17:02 | 11/14/14 10:08 | 97,6010C | JH |
| Chromium, Total | ND | | mg/kg | 0.40 | -- | 1 | 11/13/14 17:02 | 11/14/14 10:08 | 97,6010C | JH |
| Lead, Total | ND | | mg/kg | 2.0 | -- | 1 | 11/13/14 17:02 | 11/14/14 10:08 | 97,6010C | JH |
| Selenium, Total | ND | | mg/kg | 2.0 | -- | 1 | 11/13/14 17:02 | 11/14/14 10:08 | 97,6010C | JH |



Project Name: HOLY CROSS FIELDHOUSE

Lab Number: L1427194

Project Number: Not Specified

Report Date: 11/20/14

Method Blank Analysis Batch Quality Control

| | | | | | | | | | |
|---------------|----|-------|------|----|---|----------------|----------------|----------|----|
| Silver, Total | ND | mg/kg | 0.40 | -- | 1 | 11/13/14 17:02 | 11/14/14 10:08 | 97,6010C | JH |
|---------------|----|-------|------|----|---|----------------|----------------|----------|----|

Prep Information

Digestion Method: EPA 3050B

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|---|--------|-----------|-------|------|-----|--------------------|------------------|------------------|----------------------|---------|
| MCP Total Metals - Westborough Lab for sample(s): 21-24 Batch: WG740359-1 | | | | | | | | | | |
| Arsenic, Total | ND | | mg/kg | 0.40 | -- | 1 | 11/13/14 19:05 | 11/14/14 12:35 | 97,6010C | JH |
| Barium, Total | ND | | mg/kg | 0.40 | -- | 1 | 11/13/14 19:05 | 11/14/14 12:35 | 97,6010C | JH |
| Cadmium, Total | ND | | mg/kg | 0.40 | -- | 1 | 11/13/14 19:05 | 11/14/14 12:35 | 97,6010C | JH |
| Chromium, Total | ND | | mg/kg | 0.40 | -- | 1 | 11/13/14 19:05 | 11/14/14 12:35 | 97,6010C | JH |
| Lead, Total | ND | | mg/kg | 2.0 | -- | 1 | 11/13/14 19:05 | 11/14/14 12:35 | 97,6010C | JH |
| Selenium, Total | ND | | mg/kg | 2.0 | -- | 1 | 11/13/14 19:05 | 11/14/14 12:35 | 97,6010C | JH |
| Silver, Total | ND | | mg/kg | 0.40 | -- | 1 | 11/13/14 19:05 | 11/14/14 12:35 | 97,6010C | JH |

Prep Information

Digestion Method: EPA 3050B

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|--|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| MCP Total Metals - Westborough Lab for sample(s): 02,04-09,18-24 Batch: WG741381-1 | | | | | | | | | | |
| Mercury, Total | ND | | mg/kg | 0.083 | -- | 1 | 11/18/14 09:32 | 11/18/14 11:22 | 97,7471B | MC |

Prep Information

Digestion Method: EPA 7471B



Lab Control Sample Analysis**Batch Quality Control****Project Name:** HOLY CROSS FIELDHOUSE**Lab Number:** L1427194**Project Number:** Not Specified**Report Date:** 11/20/14

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|--|------------------|------|-------------------|------|---------------------|-----|------|------------|
| MCP Total Metals - Westborough Lab Associated sample(s): 10-17 Batch: WG740084-2 WG740084-3 SRM Lot Number: D083-540 | | | | | | | | |
| Mercury, Total | 122 | | 125 | | 75-126 | 2 | | 30 |
| MCP Total Metals - Westborough Lab Associated sample(s): 01 Batch: WG740085-2 WG740085-3 SRM Lot Number: D083-540 | | | | | | | | |
| Mercury, Total | 119 | | 121 | | 75-126 | 2 | | 30 |
| MCP Total Metals - Westborough Lab Associated sample(s): 03 Batch: WG740086-2 WG740086-3 SRM Lot Number: D083-540 | | | | | | | | |
| Mercury, Total | 125 | | 120 | | 75-126 | 4 | | 30 |
| MCP Total Metals - Westborough Lab Associated sample(s): 01-20 Batch: WG740317-2 WG740317-3 SRM Lot Number: D083-540 | | | | | | | | |
| Arsenic, Total | 90 | | 90 | | 78-122 | 0 | | 30 |
| Barium, Total | 84 | | 90 | | 82-117 | 7 | | 30 |
| Cadmium, Total | 86 | | 84 | | 82-118 | 2 | | 30 |
| Chromium, Total | 86 | | 83 | | 79-121 | 4 | | 30 |
| Lead, Total | 82 | | 78 | Q | 81-119 | 5 | | 30 |
| Selenium, Total | 90 | | 90 | | 78-123 | 0 | | 30 |
| Silver, Total | 91 | | 88 | | 74-125 | 3 | | 30 |

Lab Control Sample Analysis**Batch Quality Control****Project Name:** HOLY CROSS FIELDHOUSE**Lab Number:** L1427194**Project Number:** Not Specified**Report Date:** 11/20/14

| Parameter | LCS %Recovery | LCSD %Recovery | %Recovery Limits | RPD | RPD Limits |
|---|------------------|-------------------|---------------------|-----|------------|
| MCP Total Metals - Westborough Lab Associated sample(s): 21-24 Batch: WG740359-2 WG740359-3 SRM Lot Number: D083-540 | | | | | |
| Arsenic, Total | 98 | 90 | 78-122 | 9 | 30 |
| Barium, Total | 84 | 84 | 82-117 | 0 | 30 |
| Cadmium, Total | 86 | 84 | 82-118 | 2 | 30 |
| Chromium, Total | 86 | 85 | 79-121 | 1 | 30 |
| Lead, Total | 94 | 92 | 81-119 | 2 | 30 |
| Selenium, Total | 96 | 90 | 78-123 | 6 | 30 |
| Silver, Total | 91 | 88 | 74-125 | 3 | 30 |
| MCP Total Metals - Westborough Lab Associated sample(s): 02,04-09,18-24 Batch: WG741381-2 WG741381-3 SRM Lot Number: D083-540 | | | | | |
| Mercury, Total | 112 | 112 | 75-126 | 0 | 30 |

Matrix Spike Analysis **Batch Quality Control**

Project Name: HOLY CROSS FIELDHOUSE

Project Number: Not Specified

Lab Number: L1427194

Report Date: 11/20/14

| Parameter | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery | Qual | Recovery Limits | RPD | Qual | RPD Limits |
|--|---------------|----------|----------|--------------|------|-----------|---------------|------|-----------------|-----|------|------------|
| MCP Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG740085-4 QC Sample: L1427194-01 Client ID: PE-44 | | | | | | | | | | | | |
| Mercury, Total | ND | 0.148 | 0.206 | 139 | Q | - | - | | 75-125 | - | | 35 |
| MCP Total Metals - Westborough Lab Associated sample(s): 03 QC Batch ID: WG740086-4 QC Sample: L1427194-03 Client ID: PE-46 | | | | | | | | | | | | |
| Mercury, Total | ND | 0.157 | 0.221 | 140 | Q | - | - | | 75-125 | - | | 35 |
| MCP Total Metals - Westborough Lab Associated sample(s): 01-20 QC Batch ID: WG740317-4 QC Sample: L1427194-01 Client ID: PE-44 | | | | | | | | | | | | |
| Arsenic, Total | 17 | 10.1 | 29 | 119 | | - | - | | 75-125 | - | | 35 |
| Barium, Total | 45 | 168 | 180 | 80 | | - | - | | 75-125 | - | | 35 |
| Cadmium, Total | ND | 4.3 | 3.1 | 72 | Q | - | - | | 75-125 | - | | 35 |
| Chromium, Total | 21 | 16.8 | 35 | 83 | | - | - | | 75-125 | - | | 35 |
| Lead, Total | 3.8 | 43 | 32 | 66 | Q | - | - | | 75-125 | - | | 35 |
| Selenium, Total | ND | 10.1 | 7.2 | 71 | Q | - | - | | 75-125 | - | | 35 |
| Silver, Total | ND | 25.3 | 20 | 79 | | - | - | | 75-125 | - | | 35 |
| MCP Total Metals - Westborough Lab Associated sample(s): 01-20 QC Batch ID: WG740317-7 QC Sample: L1427194-03 Client ID: PE-46 | | | | | | | | | | | | |
| Arsenic, Total | 16 | 10.6 | 26 | 94 | | - | - | | 75-125 | - | | 35 |
| Barium, Total | 74 | 176 | 210 | 77 | | - | - | | 75-125 | - | | 35 |
| Cadmium, Total | ND | 4.49 | 3.2 | 71 | Q | - | - | | 75-125 | - | | 35 |
| Chromium, Total | 14 | 17.6 | 26 | 68 | Q | - | - | | 75-125 | - | | 35 |
| Lead, Total | 2.7 | 44.9 | 33 | 67 | Q | - | - | | 75-125 | - | | 35 |
| Selenium, Total | ND | 10.6 | 9.1 | 86 | | - | - | | 75-125 | - | | 35 |
| Silver, Total | ND | 26.4 | 25 | 94 | | - | - | | 75-125 | - | | 35 |

Project Name: HOLY CROSS FIELDHOUSE

Project Number: Not Specified

Lab Serial Dilution Analysis Batch Quality Control

Lab Number: L1427194

Report Date: 11/20/14

| Parameter | Native Sample | Serial Dilution | Units | % D | Qual | RPD Limits |
|--|---------------|-----------------|-------|-----|------|------------|
| MCP Total Metals - Westborough Lab Associated sample(s): 01-20 QC Batch ID: WG740317-6 QC Sample: L1427194-01 Client ID: PE-44 | | | | | | |
| Barium, Total | 45 | 75 | mg/kg | 67 | Q | 10 |
| Chromium, Total | 21 | 35 | mg/kg | 67 | Q | 10 |
| MCP Total Metals - Westborough Lab Associated sample(s): 01-20 QC Batch ID: WG740317-9 QC Sample: L1427194-03 Client ID: PE-46 | | | | | | |
| Barium, Total | 74 | 120 | mg/kg | 62 | Q | 10 |

INORGANICS & MISCELLANEOUS

Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1427194
Report Date: 11/20/14

SAMPLE RESULTS

Lab ID: L1427194-01
Client ID: PE-44
Sample Location: WORCESTER, MA
Matrix: Soil

Date Collected: 11/11/14 10:10
Date Received: 11/12/14
Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Solids, Total | 90.5 | | % | 0.100 | NA | 1 | - | 11/13/14 01:46 | 30,2540G | RT |



Project Name: HOLY CROSS FIELDHOUSE**Project Number:** Not Specified**Lab Number:** L1427194**Report Date:** 11/20/14**SAMPLE RESULTS**

Lab ID: L1427194-02
Client ID: PE-45
Sample Location: WORCESTER, MA
Matrix: Solid

Date Collected: 11/11/14 10:09
Date Received: 11/12/14
Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Solids, Total | 86.6 | | % | 0.100 | NA | 1 | - | 11/13/14 01:46 | 30,2540G | RT |



Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1427194
Report Date: 11/20/14

SAMPLE RESULTS

Lab ID: L1427194-03
Client ID: PE-46
Sample Location: WORCESTER, MA
Matrix: Solid

Date Collected: 11/11/14 09:33
Date Received: 11/12/14
Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Solids, Total | 88.6 | | % | 0.100 | NA | 1 | - | 11/13/14 01:46 | 30,2540G | RT |



Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1427194**Project Number:** Not Specified**Report Date:** 11/20/14**SAMPLE RESULTS**

Lab ID: L1427194-04
 Client ID: PE-47
 Sample Location: WORCESTER, MA
 Matrix: Solid

Date Collected: 11/11/14 10:08
 Date Received: 11/12/14
 Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Solids, Total | 93.0 | | % | 0.100 | NA | 1 | - | 11/13/14 01:46 | 30,2540G | RT |



Project Name: HOLY CROSS FIELDHOUSE**Project Number:** Not Specified**Lab Number:** L1427194**Report Date:** 11/20/14**SAMPLE RESULTS**

Lab ID: L1427194-05
Client ID: PE-48
Sample Location: WORCESTER, MA
Matrix: Solid

Date Collected: 11/11/14 10:07
Date Received: 11/12/14
Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Solids, Total | 92.7 | | % | 0.100 | NA | 1 | - | 11/13/14 01:46 | 30,2540G | RT |



Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1427194
Report Date: 11/20/14

SAMPLE RESULTS

Lab ID: L1427194-06
Client ID: PE-49
Sample Location: WORCESTER, MA
Matrix: Solid

Date Collected: 11/11/14 09:36
Date Received: 11/12/14
Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Solids, Total | 89.4 | | % | 0.100 | NA | 1 | - | 11/13/14 01:46 | 30,2540G | RT |



Project Name: HOLY CROSS FIELDHOUSE**Project Number:** Not Specified**Lab Number:** L1427194**Report Date:** 11/20/14**SAMPLE RESULTS**

Lab ID: L1427194-07
Client ID: PE-50
Sample Location: WORCESTER, MA
Matrix: Solid

Date Collected: 11/11/14 09:29
Date Received: 11/12/14
Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Solids, Total | 89.8 | | % | 0.100 | NA | 1 | - | 11/13/14 01:46 | 30,2540G | RT |



Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1427194
Report Date: 11/20/14

SAMPLE RESULTS

Lab ID: L1427194-08
Client ID: PE-51
Sample Location: WORCESTER, MA
Matrix: Solid

Date Collected: 11/11/14 09:17
Date Received: 11/12/14
Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Solids, Total | 90.7 | | % | 0.100 | NA | 1 | - | 11/13/14 01:46 | 30,2540G | RT |



Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1427194
Report Date: 11/20/14

SAMPLE RESULTS

Lab ID: L1427194-09
Client ID: PE-52
Sample Location: WORCESTER, MA
Matrix: Solid

Date Collected: 11/11/14 09:20
Date Received: 11/12/14
Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Solids, Total | 89.6 | | % | 0.100 | NA | 1 | - | 11/13/14 01:46 | 30,2540G | RT |



Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1427194
Report Date: 11/20/14

SAMPLE RESULTS

Lab ID: L1427194-10
Client ID: PE-53
Sample Location: WORCESTER, MA
Matrix: Solid

Date Collected: 11/11/14 09:24
Date Received: 11/12/14
Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Solids, Total | 89.6 | | % | 0.100 | NA | 1 | - | 11/13/14 01:46 | 30,2540G | RT |



Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1427194
Report Date: 11/20/14

SAMPLE RESULTS

Lab ID: L1427194-11
Client ID: PE-54
Sample Location: WORCESTER, MA
Matrix: Solid

Date Collected: 11/11/14 09:41
Date Received: 11/12/14
Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Solids, Total | 90.1 | | % | 0.100 | NA | 1 | - | 11/13/14 01:46 | 30,2540G | RT |



Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1427194
Report Date: 11/20/14

SAMPLE RESULTS

Lab ID: L1427194-12
Client ID: PE-55
Sample Location: WORCESTER, MA
Matrix: Solid

Date Collected: 11/11/14 09:44
Date Received: 11/12/14
Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Solids, Total | 92.1 | | % | 0.100 | NA | 1 | - | 11/13/14 01:46 | 30,2540G | RT |



Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1427194
Report Date: 11/20/14

SAMPLE RESULTS

Lab ID: L1427194-13
Client ID: PE-56
Sample Location: WORCESTER, MA
Matrix: Solid

Date Collected: 11/11/14 09:46
Date Received: 11/12/14
Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Solids, Total | 93.9 | | % | 0.100 | NA | 1 | - | 11/13/14 01:46 | 30,2540G | RT |



Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1427194**Project Number:** Not Specified**Report Date:** 11/20/14**SAMPLE RESULTS**

Lab ID: L1427194-14
 Client ID: PE-57
 Sample Location: WORCESTER, MA
 Matrix: Solid

Date Collected: 11/11/14 09:38
 Date Received: 11/12/14
 Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Solids, Total | 89.2 | | % | 0.100 | NA | 1 | - | 11/13/14 01:46 | 30,2540G | RT |



Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1427194
Report Date: 11/20/14

SAMPLE RESULTS

Lab ID: L1427194-15
Client ID: PE-58
Sample Location: WORCESTER, MA
Matrix: Solid

Date Collected: 11/11/14 09:39
Date Received: 11/12/14
Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Solids, Total | 92.1 | | % | 0.100 | NA | 1 | - | 11/13/14 01:46 | 30,2540G | RT |



Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1427194
Report Date: 11/20/14

SAMPLE RESULTS

Lab ID: L1427194-16
Client ID: PE-59
Sample Location: WORCESTER, MA
Matrix: Solid

Date Collected: 11/11/14 09:40
Date Received: 11/12/14
Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Solids, Total | 88.7 | | % | 0.100 | NA | 1 | - | 11/13/14 01:46 | 30,2540G | RT |



Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1427194
Report Date: 11/20/14

SAMPLE RESULTS

Lab ID: L1427194-17
Client ID: PE-60
Sample Location: WORCESTER, MA
Matrix: Solid

Date Collected: 11/11/14 09:52
Date Received: 11/12/14
Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Solids, Total | 94.1 | | % | 0.100 | NA | 1 | - | 11/13/14 01:46 | 30,2540G | RT |



Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1427194
Report Date: 11/20/14

SAMPLE RESULTS

Lab ID: L1427194-18
Client ID: PE-61
Sample Location: WORCESTER, MA
Matrix: Solid

Date Collected: 11/11/14 09:50
Date Received: 11/12/14
Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Solids, Total | 94.0 | | % | 0.100 | NA | 1 | - | 11/13/14 01:46 | 30,2540G | RT |



Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1427194
Report Date: 11/20/14

SAMPLE RESULTS

Lab ID: L1427194-19
Client ID: PE-62
Sample Location: WORCESTER, MA
Matrix: Solid

Date Collected: 11/11/14 09:48
Date Received: 11/12/14
Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Solids, Total | 90.3 | | % | 0.100 | NA | 1 | - | 11/13/14 01:46 | 30,2540G | RT |



Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1427194
Report Date: 11/20/14

SAMPLE RESULTS

Lab ID: L1427194-20
Client ID: PE-63
Sample Location: WORCESTER, MA
Matrix: Solid

Date Collected: 11/11/14 10:04
Date Received: 11/12/14
Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Solids, Total | 89.5 | | % | 0.100 | NA | 1 | - | 11/13/14 01:46 | 30,2540G | RT |



Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1427194
Report Date: 11/20/14

SAMPLE RESULTS

Lab ID: L1427194-21
Client ID: PE-64
Sample Location: WORCESTER, MA
Matrix: Solid

Date Collected: 11/11/14 09:59
Date Received: 11/12/14
Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Solids, Total | 92.3 | | % | 0.100 | NA | 1 | - | 11/13/14 00:27 | 30,2540G | RT |



Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1427194**Project Number:** Not Specified**Report Date:** 11/20/14**SAMPLE RESULTS**

Lab ID: L1427194-22
Client ID: PE-65
Sample Location: WORCESTER, MA
Matrix: Solid

Date Collected: 11/11/14 09:58
Date Received: 11/12/14
Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Solids, Total | 90.9 | | % | 0.100 | NA | 1 | - | 11/13/14 00:27 | 30,2540G | RT |



Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1427194
Report Date: 11/20/14

SAMPLE RESULTS

Lab ID: L1427194-23
Client ID: PE-244
Sample Location: WORCESTER, MA
Matrix: Soil

Date Collected: 11/11/14 10:10
Date Received: 11/12/14
Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Solids, Total | 91.3 | | % | 0.100 | NA | 1 | - | 11/13/14 00:27 | 30,2540G | RT |



Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1427194
Report Date: 11/20/14

SAMPLE RESULTS

Lab ID: L1427194-24
Client ID: PE-246
Sample Location: WORCESTER, MA
Matrix: Solid

Date Collected: 11/11/14 09:33
Date Received: 11/12/14
Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Solids, Total | 88.0 | | % | 0.100 | NA | 1 | - | 11/13/14 00:27 | 30,2540G | RT |



Lab Duplicate Analysis

Batch Quality Control

Project Name: HOLY CROSS FIELDHOUSE

Project Number: Not Specified

Lab Number: L1427194

Report Date: 11/20/14

| Parameter | Native Sample | Duplicate Sample | Units | RPD | Qual | RPD Limits |
|--|---------------|------------------|-------|-----|------|------------|
| General Chemistry - Westborough Lab Associated sample(s): 21-24 QC Batch ID: WG740057-1 QC Sample: L1427192-01 Client ID: DUP Sample | | | | | | |
| Solids, Total | 90.2 | 89.5 | % | 1 | | 20 |
| General Chemistry - Westborough Lab Associated sample(s): 01-20 QC Batch ID: WG740075-1 QC Sample: L1427194-01 Client ID: PE-44 | | | | | | |
| Solids, Total | 90.5 | 90.0 | % | 1 | | 20 |

Project Name: HOLY CROSS FIELDHOUSE

Project Number: Not Specified

Lab Number: L1427194

Report Date: 11/20/14

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler

A Absent

Container Information

| Container ID | Container Type | Cooler | pH | Temp deg C | Pres | Seal | Analysis(*) |
|--------------|-------------------------|--------|-----|------------|------|--------|--|
| L1427194-01A | Amber 250ml unpreserved | A | N/A | 5.5 | Y | Absent | MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),TS(7),MCP-8082-10-3540C(365),MCP-AG-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180) |
| L1427194-02A | Amber 250ml unpreserved | A | N/A | 5.5 | Y | Absent | MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),TS(7),MCP-8082LL-CNCRT(365),MCP-AG-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180) |
| L1427194-03A | Amber 250ml unpreserved | A | N/A | 5.5 | Y | Absent | MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),TS(7),MCP-8082LL-CNCRT(365),MCP-AG-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180) |
| L1427194-04A | Amber 250ml unpreserved | A | N/A | 5.5 | Y | Absent | MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),TS(7),MCP-8082LL-CNCRT(365),MCP-AG-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180) |
| L1427194-05A | Amber 250ml unpreserved | A | N/A | 5.5 | Y | Absent | MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),TS(7),MCP-8082LL-CNCRT(365),MCP-AG-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180) |

*Values in parentheses indicate holding time in days



Project Name: HOLY CROSS FIELDHOUSE**Project Number:** Not Specified**Lab Number:** L1427194**Report Date:** 11/20/14**Container Information**

| Container ID | Container Type | Cooler | pH | Temp deg C | Pres | Seal | Analysis(*) |
|--------------|-------------------------|--------|-----|---------------|------|--------|---|
| L1427194-06A | Amber 250ml unpreserved | A | N/A | 5.5 | Y | Absent | MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),TS(7),MCP-8082LL-CNCRT(365),MCP-AG-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180) |
| L1427194-07A | Amber 250ml unpreserved | A | N/A | 5.5 | Y | Absent | MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),TS(7),MCP-8082LL-CNCRT(365),MCP-AG-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180) |
| L1427194-08A | Amber 250ml unpreserved | A | N/A | 5.5 | Y | Absent | MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),TS(7),MCP-8082LL-CNCRT(365),MCP-AG-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180) |
| L1427194-09A | Amber 250ml unpreserved | A | N/A | 5.5 | Y | Absent | MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),TS(7),MCP-8082LL-CNCRT(365),MCP-AG-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180) |
| L1427194-10A | Amber 250ml unpreserved | A | N/A | 5.5 | Y | Absent | MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),TS(7),MCP-8082LL-CNCRT(365),MCP-AG-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180) |
| L1427194-11A | Amber 250ml unpreserved | A | N/A | 5.5 | Y | Absent | MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),TS(7),MCP-8082LL-CNCRT(365),MCP-AG-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180) |

*Values in parentheses indicate holding time in days



Project Name: HOLY CROSS FIELDHOUSE**Project Number:** Not Specified**Lab Number:** L1427194**Report Date:** 11/20/14**Container Information**

| Container ID | Container Type | Cooler | pH | Temp deg C | Pres | Seal | Analysis(*) |
|--------------|-------------------------|--------|-----|---------------|------|--------|---|
| L1427194-12A | Amber 250ml unpreserved | A | N/A | 5.5 | Y | Absent | MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),TS(7),MCP-8082LL-CNCRT(365),MCP-AG-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180) |
| L1427194-13A | Amber 250ml unpreserved | A | N/A | 5.5 | Y | Absent | MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),TS(7),MCP-8082LL-CNCRT(365),MCP-AG-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180) |
| L1427194-14A | Amber 250ml unpreserved | A | N/A | 5.5 | Y | Absent | MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),TS(7),MCP-8082LL-CNCRT(365),MCP-AG-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180) |
| L1427194-15A | Amber 250ml unpreserved | A | N/A | 5.5 | Y | Absent | MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),TS(7),MCP-8082LL-CNCRT(365),MCP-AG-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180) |
| L1427194-16A | Amber 250ml unpreserved | A | N/A | 5.5 | Y | Absent | MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),TS(7),MCP-8082LL-CNCRT(365),MCP-AG-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180) |
| L1427194-17A | Amber 250ml unpreserved | A | N/A | 5.5 | Y | Absent | MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),TS(7),MCP-8082LL-CNCRT(365),MCP-AG-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180) |

*Values in parentheses indicate holding time in days



Project Name: HOLY CROSS FIELDHOUSE**Project Number:** Not Specified**Lab Number:** L1427194**Report Date:** 11/20/14**Container Information**

| Container ID | Container Type | Cooler | pH | Temp deg C | Pres | Seal | Analysis(*) |
|--------------|-------------------------|--------|-----|---------------|------|--------|--|
| L1427194-18A | Amber 250ml unpreserved | A | N/A | 5.5 | Y | Absent | MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),TS(7),MCP-8082LL-CNCRT(365),MCP-AG-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180) |
| L1427194-19A | Amber 250ml unpreserved | A | N/A | 5.5 | Y | Absent | MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),TS(7),MCP-8082LL-CNCRT(365),MCP-AG-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180) |
| L1427194-20A | Amber 250ml unpreserved | A | N/A | 5.5 | Y | Absent | MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),TS(7),MCP-8082LL-CNCRT(365),MCP-AG-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180) |
| L1427194-21A | Amber 250ml unpreserved | A | N/A | 5.5 | Y | Absent | MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),TS(7),MCP-8082LL-CNCRT(365),MCP-AG-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180) |
| L1427194-22A | Amber 250ml unpreserved | A | N/A | 5.5 | Y | Absent | MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),TS(7),MCP-8082LL-CNCRT(365),MCP-AG-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180) |
| L1427194-23A | Amber 250ml unpreserved | A | N/A | 5.5 | Y | Absent | MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),TS(7),MCP-8082-10-3540C(365),MCP-AG-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180) |

*Values in parentheses indicate holding time in days



Project Name: HOLY CROSS FIELDHOUSE**Project Number:** Not Specified**Lab Number:** L1427194**Report Date:** 11/20/14**Container Information**

| Container ID | Container Type | Cooler | pH | Temp deg C | Pres | Seal |
|--------------|-------------------------|--------|-----|---------------|------|--------|
| L1427194-24A | Amber 250ml unpreserved | A | N/A | 5.5 | Y | Absent |

Analysis(*)

MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),TS(7),MCP-8082LL-CNCRT(365),MCP-AG-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180)

*Values in parentheses indicate holding time in days



Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1427194**Project Number:** Not Specified**Report Date:** 11/20/14

GLOSSARY

Acronyms

| | |
|------|---|
| EDL | - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME). |
| EPA | - Environmental Protection Agency. |
| LCS | - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes. |
| LCSD | - Laboratory Control Sample Duplicate: Refer to LCS. |
| LFB | - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes. |
| MDL | - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. |
| MS | - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. |
| MSD | - Matrix Spike Sample Duplicate: Refer to MS. |
| NA | - Not Applicable. |
| NC | - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit. |
| NI | - Not Ignitable. |
| RL | - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable. |
| RPD | - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report. |
| SRM | - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples. |

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

Report Format: Data Usability Report



Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1427194**Project Number:** Not Specified**Report Date:** 11/20/14**Data Qualifiers**

- G** - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the reporting limit (RL) for the sample.

Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1427194
Report Date: 11/20/14

REFERENCES

- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.
- 97 EPA Test Methods (SW-846) with QC Requirements & Performance Standards for the Analysis of EPA SW-846 Methods under the Massachusetts Contingency Plan, WSC-CAM-IIA, IIB, IIIA, IIIB, IIIC, IIID, VA, VB, VC, VIA, VIB, VIIIA and VIIIB, July 2010.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

Last revised April 15, 2014

The following analytes are not included in our NELAP Scope of Accreditation:

Westborough Facility

EPA 524.2: Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.

EPA 8260C: 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide), Methyl methacrylate, Azobenzene.

EPA 8330A/B: PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT.

EPA 8270D: 1-Methylnaphthalene, Dimethylnaphthalene, 1,4-Diphenylhydrazine.

EPA 625: 4-Chloroaniline, 4-Methylphenol.

SM4500: Soil: Total Phosphorus, TKN, NO₂, NO₃.

EPA 9071: Total Petroleum Hydrocarbons, Oil & Grease.

Mansfield Facility

EPA 8270D: Biphenyl.

EPA 2540D: TSS

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water

EPA 200.8: Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, Tl; **EPA 200.7:** Ba, Be, Ca, Cd, Cr, Cu, Na; **EPA 245.1:** Mercury;

EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO₃-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**

EPA 332: Perchlorate.

Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.

Non-Potable Water

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, Tl, Zn;

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, Ti, Tl, V, Zn;

EPA 245.1, SM4500H-B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC,

SM426C, SM4500NH₃-BH, EPA 350.1: Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO₃-F,**

EPA 353.2: Nitrate-N, **SM4500NH₃-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4,**

SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.

EPA 624: Volatile Halocarbons & Aromatics,

EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF.

For a complete listing of analytes and methods, please contact your Alpha Project Manager.



WESTBORO, MA
TEL: 508-898-9220
FAX: 508-898-9193

MANSFIELD, MA
TEL: 508-822-9300
FAX: 508-822-3288

CHAIN OF CUSTODY

PAGE 2 OF 3

Serial No: 11201413:45

Date Rec'd in Lab: 11/12/14

ALPHA Job #: L1427194

Project Information

Project Name: Holy Cross Fieldhouse

Project Location: Worcester MA

Project #:

Project Manager: Richard Gang

ALPHA Quote #:

Turn-Around Time

☒ Standard

☐ RUSH (only confirmed if pre-approved!)

Date Due: 11/19/14

Time:

Report Information - Data Deliverables

☐ FAX

☒ EMAIL

☒ ADEX

☐ Add'l Deliverables

Billing Information

☒ Same as Client info

PO #:

Regulatory Requirements/Report Limits

State / Fed Program MASSMCP/EPA Criteria PCB detect < 1 ppm

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO

☒ Yes ☐ No

Are MCP Analytical Methods Required?

☐ Yes ☒ No

Is Matrix Spike (MS) Required on this SDG? (If yes see note in Comments)

☐ Yes ☒ No

Are CT RCP (Reasonable Confidence Protocols) Required?

Client Information

Client: Cooperstown Environmental

Address: 23 Main Street

Andover MA 01810

Phone: 978-470-4755

Fax:

Email: richard@cooperstownenv.com

☐ These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

If MS is required, indicate in Sample Specific Comments which samples and what tests MS to be performed.

(Note: All CAM methods for inorganic analyses require MS every 20 soil samples)

* 3500B/3540C of SW-846 detect limit < 1 ppm

| ALPHA Lab ID (Lab Use Only) | Sample ID | Collection | | Sample Matrix | Sampler's Initials | ANALYSIS PCBs SOXHLET* RCRA 8 Metals | | | | | | | | | | SAMPLE HANDLING Filtration _____ <input type="checkbox"/> Done <input checked="" type="checkbox"/> Not needed <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please specify below) | | Sample Specific Comments | TOTAL # BOTTLES |
|--------------------------------|-----------|------------|-------|---------------|--------------------|--|---|--|--|--|--|--|--|--|--|---|--|--------------------------|-----------------|
| | | Date | Time | | | | | | | | | | | | | | | | |
| 27194-11 | PE-54 | 11/11/14 | 9:41 | CONCRETE | AN | X | X | | | | | | | | | | | | 1 |
| 12 | PE-55 | | 9:44 | | | X | X | | | | | | | | | | | | 1 |
| 13 | PE-56 | | 9:46 | | | X | X | | | | | | | | | | | | 1 |
| 14 | PE-57 | | 9:38 | | | X | X | | | | | | | | | | | | 1 |
| 15 | PE-58 | | 9:39 | | | X | X | | | | | | | | | | | | 1 |
| 16 | PE-59 | | 9:40 | | | X | X | | | | | | | | | | | | 1 |
| 17 | PE-60 | | 9:52 | | | X | X | | | | | | | | | | | | 1 |
| 18 | PE-61 | | 9:50 | | | X | X | | | | | | | | | | | | 1 |
| 19 | PE-62 | | 9:48 | | | X | X | | | | | | | | | | | | 1 |
| 20 | PE-63 | | 10:04 | | | X | X | | | | | | | | | | | | 1 |

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT
(MA MCP) or CT RCP?

Container Type G G

Preservative A A

Relinquished By:

Aniel Newman

Date/Time

11/12/14 11:00
11/12/14 177

Received By:

John M. Wood

Date/Time

11/12/14 11:00
11/12/14 175

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side

Data Path : I:\Pest12\141118\
 Data File : 12141118-09.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 18 Nov 2014 5:50 am
 Operator : pest12:kb
 Sample : wg740493-1,42e,,
 Misc : wg741390,wg740493,ical9214
 ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Nov 19 00:53:29 2014
 Quant Method : I:\Pest12\Methods Pest12\P12_pcb 02-20-14_ugL_m
 Quant Title : pcb
 QLast Update : Thu Oct 16 09:49:53 2014
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase: Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ug/l | ug/l |
|--------------------|-------|-------|----------|----------|---------|---------|
| Internal Standards | | | | | | |
| 1) i 1660_1br2nb | 2.147 | 2.297 | 1308.3E6 | 3853.6E6 | 250.000 | 250.000 |
| 14) i 2154_1br2nb | 2.147 | 2.297 | 1308.3E6 | 3853.6E6 | 250.000 | 250.000 |
| 24) i 4268_1br2nb | 2.147 | 2.297 | 1308.3E6 | 3853.6E6 | 250.000 | 250.000 |
| 35) i 1248_1br2nb | 2.147 | 2.297 | 1308.3E6 | 3853.6E6 | 250.000 | 250.000 |
| 41) i 3262_1br2nb | 2.147 | 2.297 | 1308.3E6 | 3853.6E6 | 250.000 | 250.000 |

System Monitoring Compounds

| | | | | | | |
|-------------------|---------|----------------|-------------------|----------|---------|---------|
| 2) s 2,4,5,6-T... | 2.631 | 2.933 | 2343.7E6 | 7073.0E6 | 360.497 | 425.151 |
| Spiked Amount | 500.000 | Range 30 - 150 | Recovery = 72.10% | 85.03% | | |
| 3) s Decachlor... | 6.642 | 7.308 | 2070.5E6 | 4002.8E6 | 396.538 | 386.610 |
| Spiked Amount | 500.000 | Range 30 - 150 | Recovery = 79.31% | 77.32% | | |

| | | | | | | |
|------------------|-------|-------|---|---|--------|--------|
| Target Compounds | | | | | | |
| 4) I1 1016-1 | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 5) I1 1016-2 | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 6) I1 1016-3 | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 7) I1 1016-4 | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 8) I1 1016-5 | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| Sum 1016-1 | | | 0 | 0 | N.D. | N.D. |
| Average 1016-1 | | | | | 0.000 | 0.000 |
| 9) I2 1260-1 | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 10) I2 1260-2 | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 11) I2 1260-3 | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 12) I2 1260-4 | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 13) I2 1260-5 | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| Sum 1260-1 | | | 0 | 0 | N.D. | N.D. |
| Average 1260-1 | | | | | 0.000 | 0.000 |
| 15) I3 1221-1 | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |

Data Path : I:\Pest12\141118\
 Data File : 12141118-09.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 18 Nov 2014 5:50 am
 Operator : pest12:kb
 Sample : wg740493-1,42e,,
 Misc : wg741390,wg740493,ical9214
 ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e

Quant Time: Nov 19 00:53:29 2014
 Quant Method : I:\Pest12\Methods Pest12\P12_pcb 02-20-14_ugL_.m
 Quant Title : pcb
 QLast Update : Thu Oct 16 09:49:53 2014
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ug/l | ug/l |
|----------------|-------|-------|--------|--------|--------|--------|
| 16) I3 1221-2 | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 17) I3 1221-3 | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 18) I3 1221-4 | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| Sum 1221-1 | | | 0 | 0 | N.D. | N.D. |
| Average 1221-1 | | | | | 0.000 | 0.000 |
| 19) I4 1254-1 | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 20) I4 1254-2 | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 21) I4 1254-3 | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 22) I4 1254-4 | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 23) I4 1254-5 | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| Sum 1254-1 | | | 0 | 0 | N.D. | N.D. |
| Average 1254-1 | | | | | 0.000 | 0.000 |
| 25) I6 1242-1 | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 26) I6 1242-2 | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 27) I6 1242-3 | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 28) I6 1242-4 | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 29) I6 1242-5 | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| Sum 1242-1 | | | 0 | 0 | N.D. | N.D. |
| Average 1242-1 | | | | | 0.000 | 0.000 |
| 30) I9 1268-1 | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 31) I9 1268-2 | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 32) I9 1268-3 | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 33) I9 1268-4 | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 34) I9 1268-5 | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| Sum 1268-1 | | | 0 | 0 | N.D. | N.D. |
| Average 1268-1 | | | | | 0.000 | 0.000 |
| 36) I7 1248-1 | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |

Data Path : I:\Pest12\141118\
 Data File : 12141118-09.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 18 Nov 2014 5:50 am
 Operator : pest12:kb
 Sample : wg740493-1,42e,,
 Misc : wg741390,wg740493,ical9214
 ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e

Quant Time: Nov 19 00:53:29 2014
 Quant Method : I:\Pest12\Methods Pest12\P12_pcb 02-20-14_ugL_m
 Quant Title : pcb
 QLast Update : Thu Oct 16 09:49:53 2014
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ug/l | ug/l |
|----------------|-------|-------|--------|--------|--------|--------|
| 37) I7 1248-2 | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 38) I7 1248-3 | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 39) I7 1248-4 | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 40) I7 1248-5 | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| Sum 1248-1 | | | 0 | 0 | N.D. | N.D. |
| Average 1248-1 | | | | | 0.000 | 0.000 |
| 42) I5 1232-1 | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 43) I5 1232-2 | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 44) I5 1232-3 | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 45) I5 1232-4 | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 46) I5 1232-5 | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| Sum 1232-1 | | | 0 | 0 | N.D. | N.D. |
| Average 1232-1 | | | | | 0.000 | 0.000 |
| 47) I8 1262-1 | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 48) I8 1262-2 | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 49) I8 1262-3 | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 50) I8 1262-4 | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 51) I8 1262-5 | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| Sum 1262-1 | | | 0 | 0 | N.D. | N.D. |
| Average 1262-1 | | | | | 0.000 | 0.000 |

SemiQuant Compounds - Not Calibrated on this Instrument

Sum 1262-1 0 0 N.D. N.D.
 Average 1262-1 0.000 0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\Pest12\141118\

Data File : 12141118-09.d

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 18 Nov 2014 5:50 am

Operator : pest12:kb

Sample : wg740493-1,42e,,

Misc : wg741390,wg740493,ical9214

ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: events.e

Integration File signal 2: events2.e

Quant Time: Nov 19 00:53:29 2014

Quant Method : I:\Pest12\Methods Pest12\P12_pcb 02-20-14_ugL_.m

Quant Title : pcb

QLast Update : Thu Oct 16 09:49:53 2014

Response via : Initial Calibration

Integrator: ChemStation

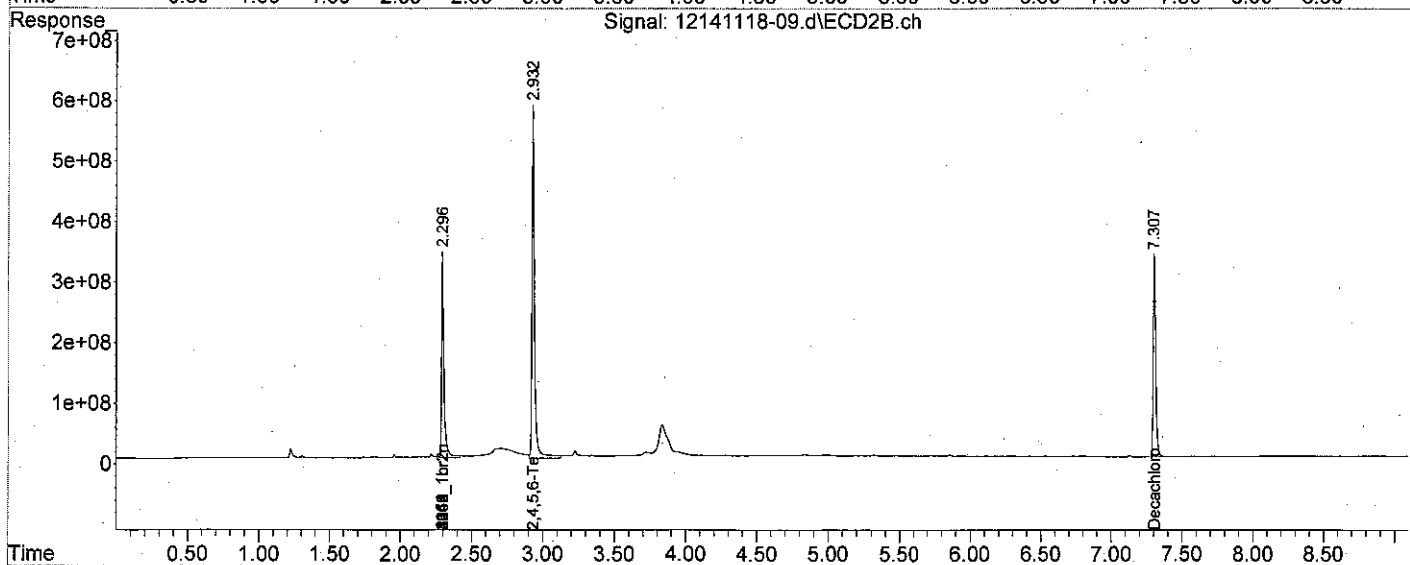
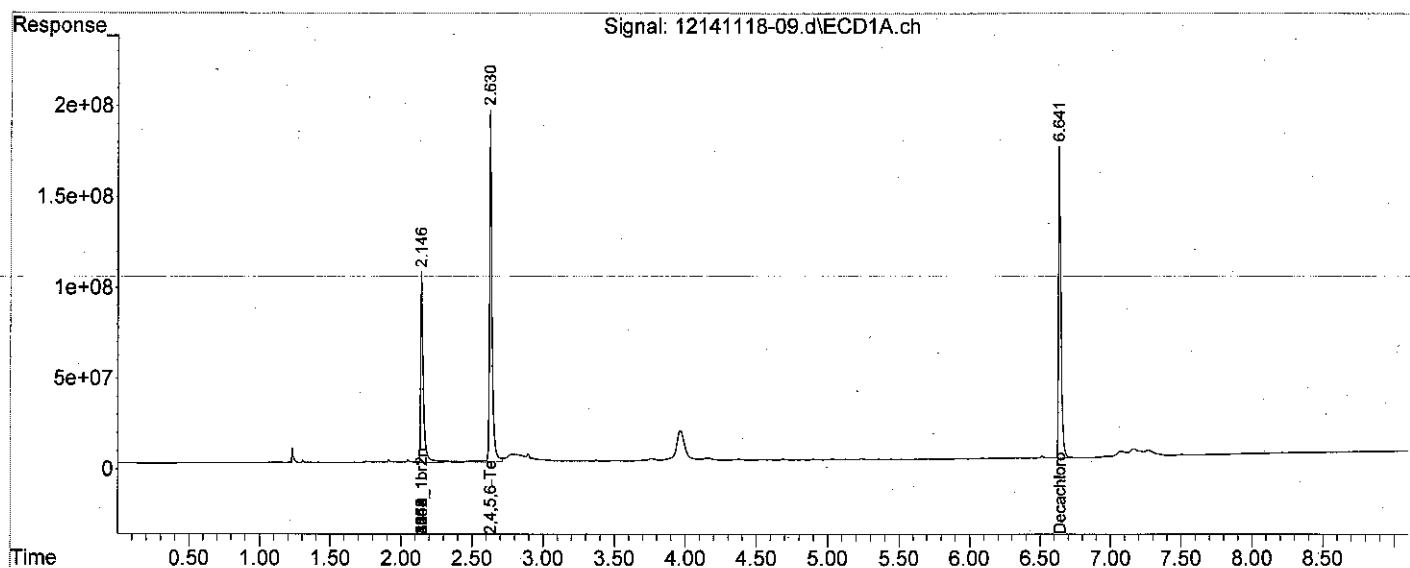
Volume Inj. :

Signal #1 Phase :

Signal #2 Phase:

Signal #1 Info :

Signal #2 Info :



Manual Integration/Negative Proof Report

Data Path : I:\Pest12\141118\
Data File : 12141118-09.d
Date Inj'd : 11/18/2014 5:50 am
Sample : wg740493-1,42e,,

QMethod : P12_pcb 02-20-14_ugL_.m
Operator : pest12:kb
Instrument : Pest12
Quant Date : 11/19/2014 0:36 am

There are no manual integrations or false positives in this file.

Data Path : I:\Pest12\141118\
 Data File : 12141118-10.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 18 Nov 2014 6:03 am
 Operator : pest12:kb
 Sample : wg740493-2,42e,,
 Misc : wg741390,wg740493,ical9214
 ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Nov 19 00:54:21 2014
 Quant Method : I:\Pest12\Methods Pest12\P12_pcb 02-20-14_ugL_1660.m
 Quant Title : pcb
 QLast Update : Wed Nov 12 23:06:22 2014
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ug/l | ug/l |
|---|---------|--------|----------|-----------|-----------|------------|
| Internal Standards | | | | | | |
| 1) i 1660_1br2nb | 2.146 | 2.297 | 1337.0E6 | 4026.5E6 | 250.000 | 250.000 |
| System Monitoring Compounds | | | | | | |
| 2) s 2,4,5,6-T... | 2.630 | 2.932 | 2239.7E6 | 6452.4E6 | 337.123 | 371.197 |
| Spiked Amount | 500.000 | Range | 30 - 150 | Recovery | = 67.42% | 74.24% |
| 3) s Decachlor... | 6.643f | 7.311 | 2012.7E6 | 3868.6E6 | 377.222 | 357.606 |
| Spiked Amount | 500.000 | Range | 30 - 150 | Recovery | = 75.44% | 71.52% |
| Target Compounds | | | | | | |
| 4) I1 1016-1 | 2.867f | 3.297 | 396.0E6 | 993.7E6 | 2954.800 | 2898.940 |
| 5) I1 1016-2 | 3.113f | 3.620 | 570.8E6 | 1745.0E6 | 2060.327 | 2397.562 |
| 6) I1 1016-3 | 3.457f | 4.008 | 1272.5E6 | 2481.9E6 | 2213.428 | 2588.636 |
| 7) I1 1016-4 | 3.558f | 4.119 | 457.8E6 | 1570.8E6 | 2149.693 | 2755.661 # |
| 8) I1 1016-5 | 3.879f | 4.498 | 557.3E6 | 1169.2E6 | 2371.552 | 2878.515 |
| Sum 1016-1 | | | 3254.4E6 | 7960.7E6 | 11749.801 | 13519.314 |
| Average 1016-1 | | | | | 2349.960 | 2703.863 |
| 9) I2 1260-1 | 4.824f | 5.458 | 751.6E6 | 2226.7E6 | 2333.230 | 2985.090 # |
| 10) I2 1260-2 | 5.030f | 5.602 | 1134.6E6 | 2520.8E6 | 2477.509 | 2900.807 |
| 11) I2 1260-3 | 5.494f | 6.125 | 659.3E6 | 1778.9E6 | 2481.608 | 2818.782 |
| 12) I2 1260-4 | 5.710f | 6.287 | 1736.1E6 | 3701.3E6 | 2490.758 | 2630.489 |
| 13) I2 1260-5 | 5.908f | 6.538f | 1107.0E6 | 3347.0E6 | 2538.995 | 2570.760M3 |
| Sum 1260-1 | | | 5388.5E6 | 13574.7E6 | 12322.100 | 13905.929 |
| Average 1260-1 | | | | | 2464.420 | 2781.186 |
| SemiQuant Compounds - Not Calibrated on this Instrument | | | | | | |
| Sum 1260-1 | | | 5388.5E6 | 13574.7E6 | 12322.100 | 13905.929 |
| Average 1260-1 | | | | | 2464.420 | 2781.186 |

Quantitation Report (QT Reviewed)

Data Path : I:\Pest12\141118\
Data File : 12141118-10.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Nov 2014 6:03 am
Operator : pest12:kb
Sample : wg740493-2,42e,,
Misc : wg741390,wg740493,ical9214
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Nov 19 00:54:21 2014
Quant Method : I:\Pest12\Methods Pest12\P12_pcb 02-20-14_ugL_1660.m
Quant Title : pcb
QLast Update : Wed Nov 12 23:06:22 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ug/l | ug/l |
|----------|------|------|--------|--------|------|------|
|----------|------|------|--------|--------|------|------|

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\Pest12\141118\

Data File : 12141118-10.d

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 18 Nov 2014 6:03 am

Operator : pest12:kb

Sample : wg740493-2,42e,,

Misc : wg741390,wg740493,ical9214

ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: events.e

Integration File signal 2: events2.e

Quant Time: Nov 19 00:54:21 2014

Quant Method : I:\Pest12\Methods Pest12\P12_pcb 02-20-14_ugL_1660.m

Quant Title : pcb

QLast Update : Wed Nov 12 23:06:22 2014

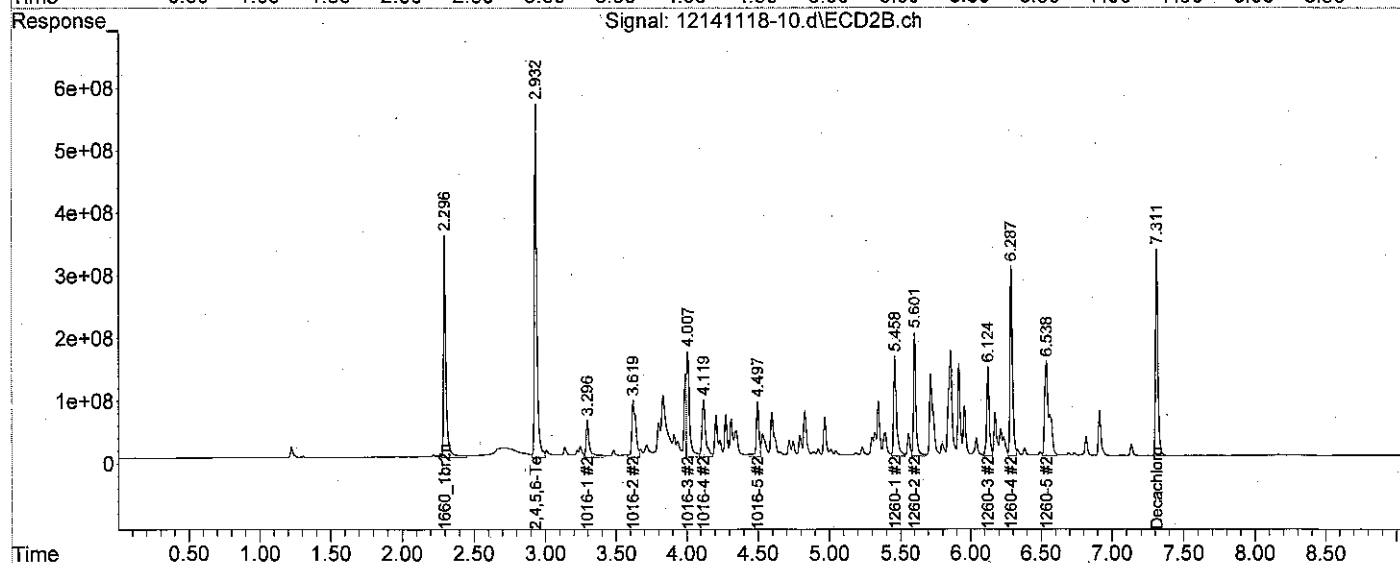
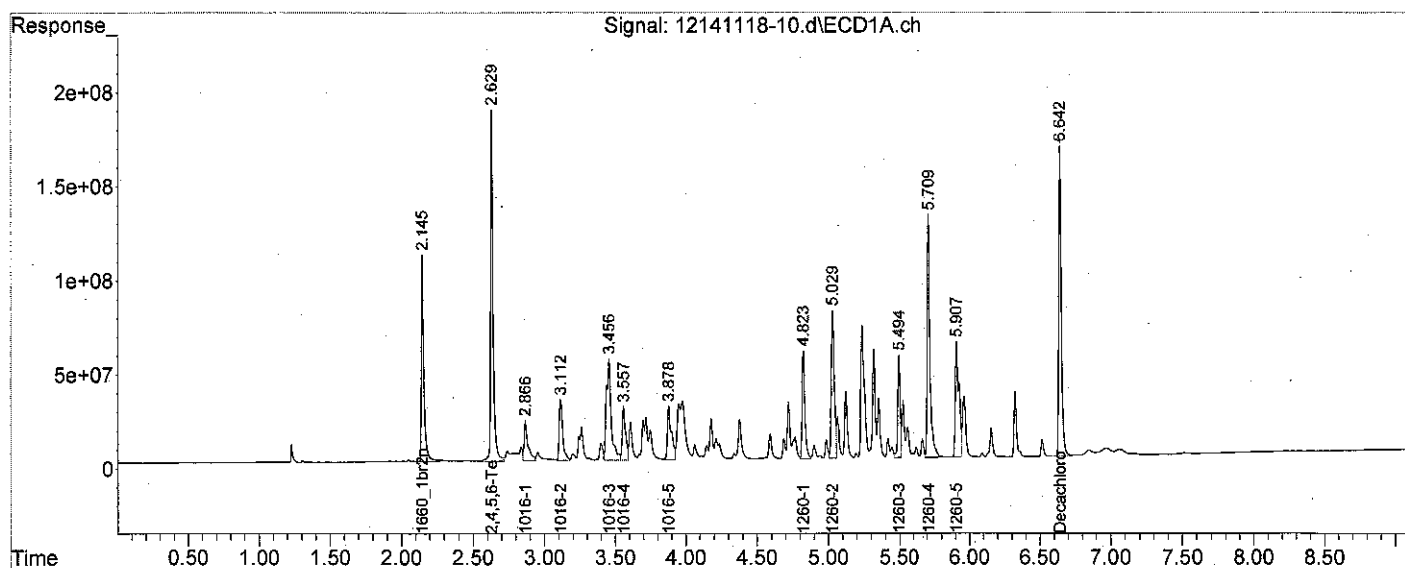
Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. :

Signal #1 Phase : Signal #2 Phase:

Signal #1 Info : Signal #2 Info :

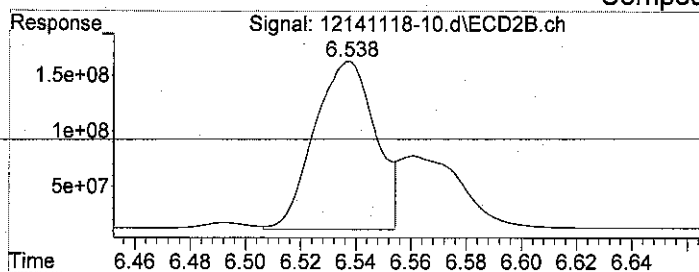


Manual Integration/Negative Proof Report

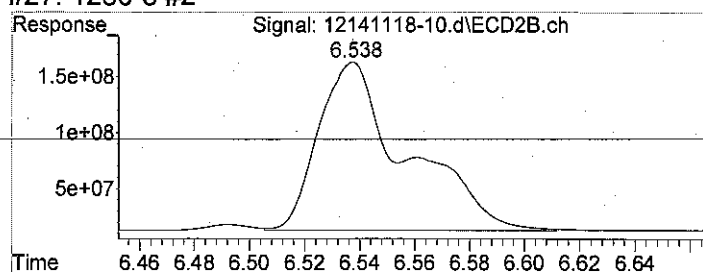
Data Path : I:\Pest12\141118\
Data File : 12141118-10.d
Date Inj'd : 11/18/2014 6:03 am
Sample : wg740493-2,42e,,

QMethod : P12_pcb 02-20-14_ugL_1660.m
Operator : pest12:kb
Instrument : Pest12
Quant Date : 11/19/2014 0:54 am

Compound #27: 1260-5 #2



Original Peak Response = 2306529122



Manual Peak Response = 3346959091 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Data Path : I:\Pest12\141118\
 Data File : 12141118-11.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 18 Nov 2014 6:15 am
 Operator : pest12:kb
 Sample : wg740493-3,42e,,
 Misc : wg741390,wg740493,ical9214
 ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Nov 19 00:55:52 2014
 Quant Method : I:\Pest12\Methods Pest12\P12_pcb 02-20-14_ugL_1660.m
 Quant Title : pcb
 QLast Update : Wed Nov 12 23:06:22 2014
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ug/l | ug/l |
|---|---------|-------|----------|-----------|------------|------------|
| Internal Standards | | | | | | |
| 1) i 1660_1br2nb | 2.147 | 2.297 | 1381.8E6 | 4149.7E6 | 250.000 | 250.000 |
| System Monitoring Compounds | | | | | | |
| 2) s 2,4,5,6-T... | 2.631 | 2.933 | 2856.0E6 | 8077.4E6 | 415.952 | 450.889 |
| Spiked Amount | 500.000 | Range | 30 - 150 | Recovery | = 83.19% | 90.18% |
| 3) s Decachlor... | 6.644f | 7.312 | 2336.1E6 | 4357.0E6 | 423.637 | 390.796 |
| Spiked Amount | 500.000 | Range | 30 - 150 | Recovery | = 84.73% | 78.16% |
| Target Compounds | | | | | | |
| 4) I1 1016-1 | 2.866f | 3.297 | 297.1E6 | 1200.3E6 | 2145.052M4 | 3397.921 # |
| 5) I1 1016-2 | 3.114f | 3.621 | 712.8E6 | 2115.8E6 | 2489.499 | 2820.649 |
| 6) I1 1016-3 | 3.455f | 4.008 | 1570.6E6 | 2995.6E6 | 2643.270 | 3031.679 |
| 7) I1 1016-4 | 3.559f | 4.120 | 571.2E6 | 1877.8E6 | 2594.876 | 3196.291 |
| 8) I1 1016-5 | 3.879f | 4.498 | 681.7E6 | 1424.3E6 | 2806.902 | 3402.574 |
| Sum 1016-1 | | | 3833.3E6 | 9613.8E6 | 12679.599 | 15849.114 |
| Average 1016-1 | | | | | 2535.920 | 3169.823 |
| 9) I2 1260-1 | 4.825f | 5.457 | 938.7E6 | 2297.6E6 | 2819.707 | 2988.722M3 |
| 10) I2 1260-2 | 5.029f | 5.601 | 1390.8E6 | 3102.6E6 | 2938.468M3 | 3464.409 |
| 11) I2 1260-3 | 5.494f | 6.125 | 766.8E6 | 2174.5E6 | 2792.612M3 | 3343.391 |
| 12) I2 1260-4 | 5.711f | 6.287 | 2058.5E6 | 4387.4E6 | 2857.506 | 3025.534 |
| 13) I2 1260-5 | 5.909f | 6.539 | 1313.1E6 | 4058.0E6 | 2914.049 | 3024.396M3 |
| Sum 1260-1 | | | 6467.8E6 | 16020.2E6 | 14322.342 | 15846.453 |
| Average 1260-1 | | | | | 2864.468 | 3169.291 |
| SemiQuant Compounds - Not Calibrated on this Instrument | | | | | | |
| Sum 1260-1 | | | 6467.8E6 | 16020.2E6 | 14322.342 | 15846.453 |
| Average 1260-1 | | | | | 2864.468 | 3169.291 |

Data Path : I:\Pest12\141118\
Data File : 12141118-11.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Nov 2014 6:15 am
Operator : pest12:kb
Sample : wg740493-3,42e,,
Misc : wg741390,wg740493,ical9214
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e

Quant Time: Nov 19 00:55:52 2014
Quant Method : I:\Pest12\Methods Pest12\P12_pcb 02-20-14_ugL_1660.m
Quant Title : pcb
QLast Update : Wed Nov 12 23:06:22 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ug/l | ug/l |
|----------|------|------|--------|--------|------|------|
|----------|------|------|--------|--------|------|------|

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\Pest12\141118\

Data File : 12141118-11.d

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 18 Nov 2014 6:15 am

Operator : pest12:kb

Sample : wg740493-3,42e,,

Misc : wg741390,wg740493,ical9214

ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: events.e

Integration File signal 2: events2.e

Quant Time: Nov 19 00:55:52 2014

Quant Method : I:\Pest12\Methods Pest12\P12_pcb 02-20-14_ugL_1660.m

Quant Title : pcb

QLast Update : Wed Nov 12 23:06:22 2014

Response via : Initial Calibration

Integrator: ChemStation

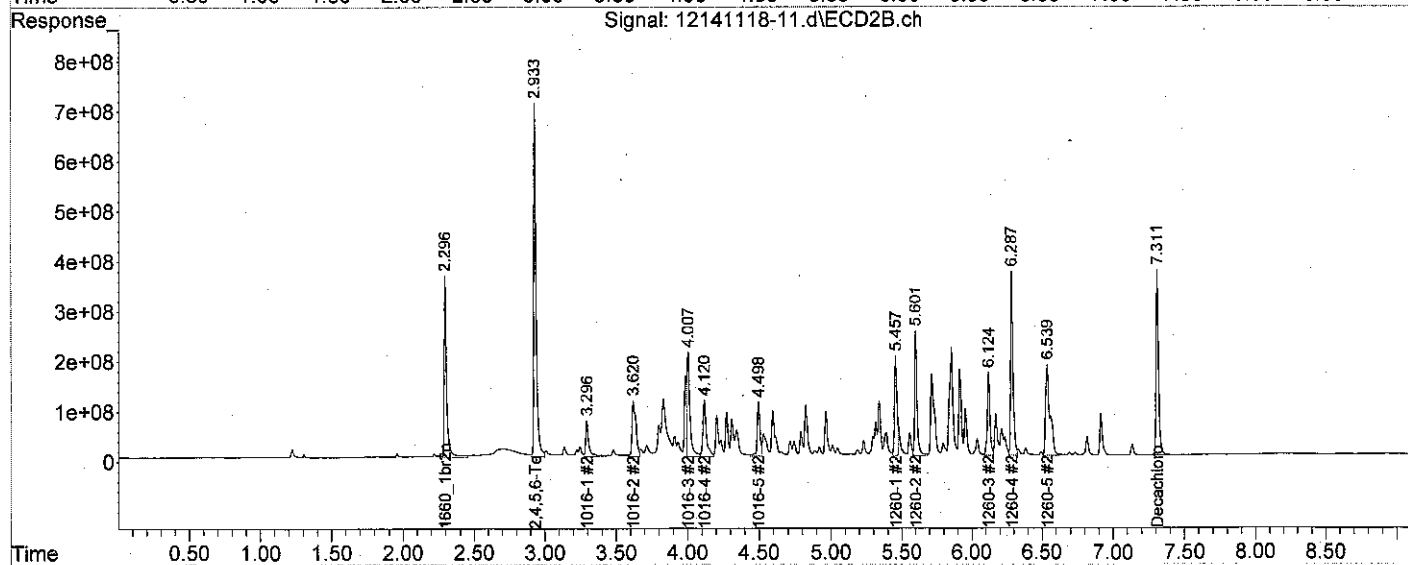
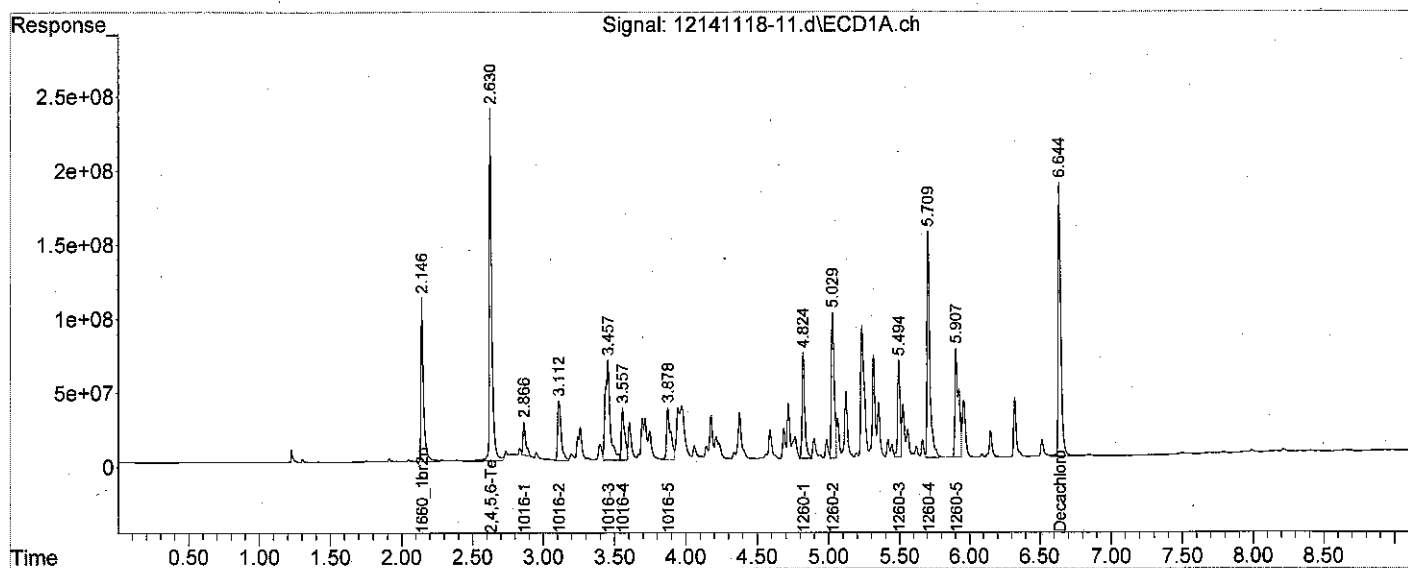
Volume Inj. :

Signal #1 Phase :

Signal #2 Phase:

Signal #1 Info :

Signal #2 Info :

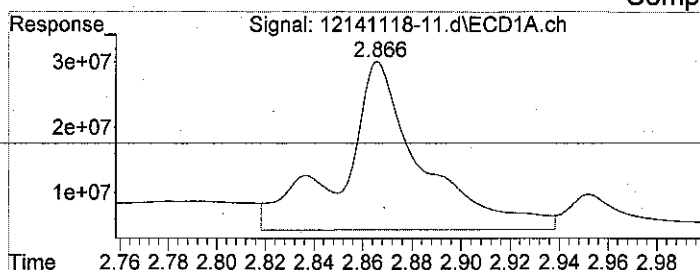


Manual Integration/Negative Proof Report

Data Path : I:\Pest12\141118\
 Data File : 12141118-11.d
 Date Inj'd : 11/18/2014 6:15 am
 Sample : wg740493-3,42e,,

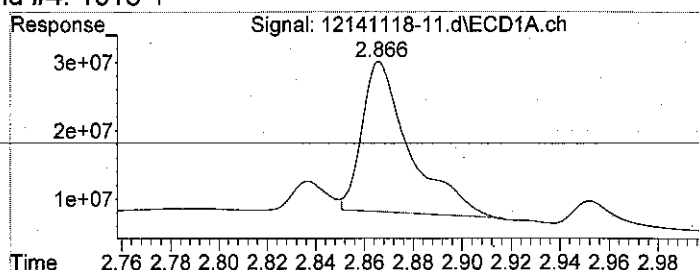
QMethod : P12_pcb 02-20-14_ugL_1660.m
 Operator : pest12:kb
 Instrument : Pest12
 Quant Date : 11/19/2014 0:55 am

Compound #4: 1016-1



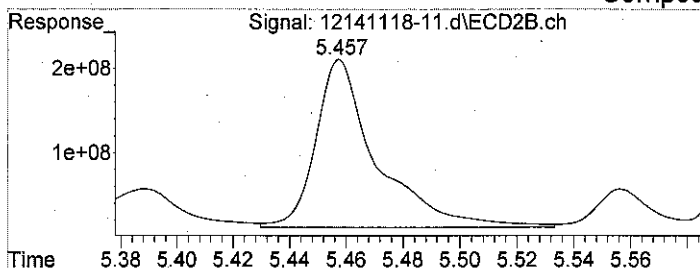
Original Peak Response = 587895493

M4 = Poor automated baseline construction.



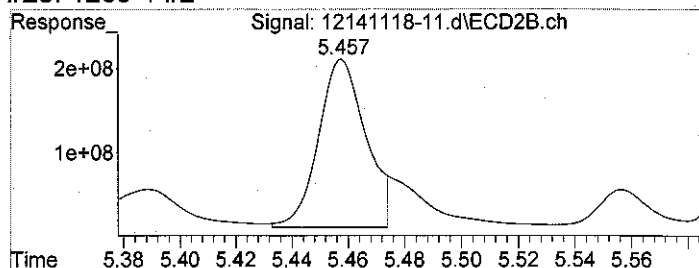
Manual Peak Response = 297116513 M4

Compound #23: 1260-1 #2



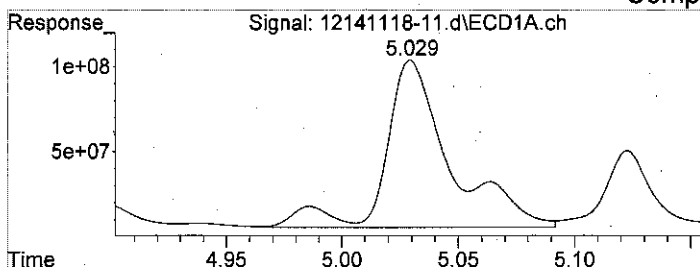
Original Peak Response = 2984698858

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.



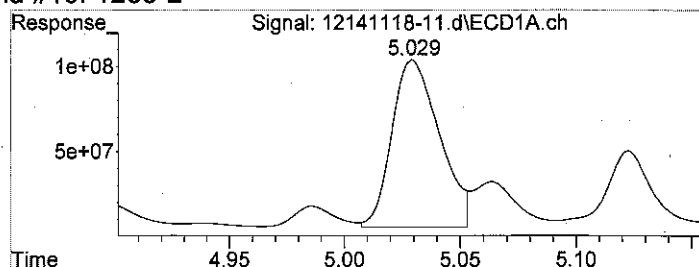
Manual Peak Response = 2297643799 M3

Compound #10: 1260-2



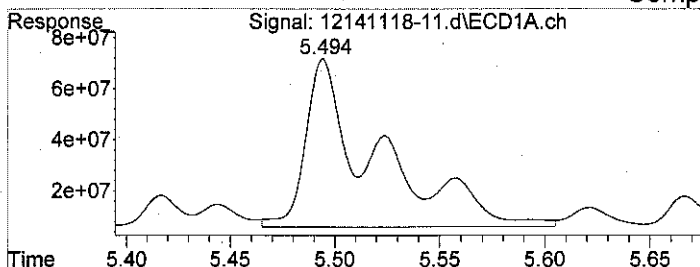
Original Peak Response = 1899490326

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.



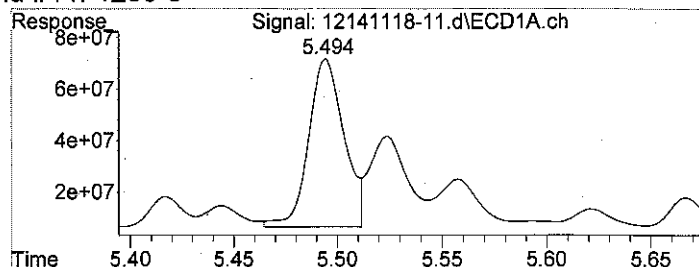
Manual Peak Response = 1390758019 M3

Compound #11: 1260-3



Original Peak Response = 1537036168

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.



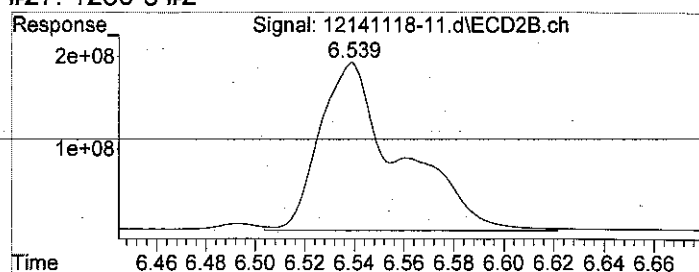
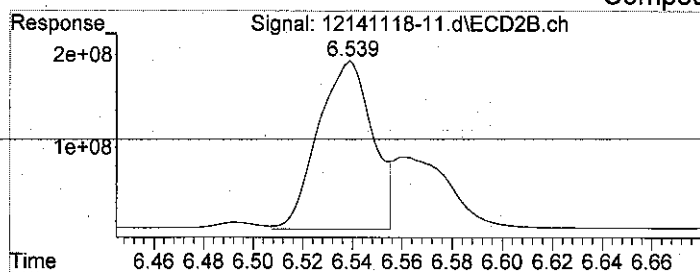
Manual Peak Response = 766754649 M3

Manual Integration/Negative Proof Report

Data Path : I:\Pest12\141118\
Data File : 12141118-11.d
Date Inj'd : 11/18/2014 6:15 am
Sample : wg740493-3,42e,,

QMethod : P12_pcb 02-20-14_ugL_1660.m
Operator : pest12:kb
Instrument : Pest12
Quant Date : 11/19/2014 0:55 am

Compound #27: 1260-5 #2



Original Peak Response = 2737549208

Manual Peak Response = 4057997342 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.



ANALYTICAL REPORT

| | |
|-----------------|---|
| Lab Number: | L1426671 |
| Client: | Cooperstown Environmental LLC 23 Main Street Andover, MA 01810-0814 |
| ATTN: | Richard Gang |
| Phone: | (978) 470-4755 |
| Project Name: | HOLY CROSS FIELDHOUSE |
| Project Number: | Not Specified |
| Report Date: | 11/07/14 |

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1426671
Report Date: 11/07/14

| Alpha Sample ID | Client ID | Matrix | Sample Location | Collection Date/Time | Receive Date |
|----------------------------|------------------|---------------|----------------------------|---------------------------------|---------------------|
| L1426671-01 | SED-01 | SOIL | WORCESTER, MA | 11/06/14 11:30 | 11/06/14 |
| L1426671-02 | PE-40 | SOIL | WORCESTER, MA | 11/06/14 11:39 | 11/06/14 |
| L1426671-03 | PE-41 | SOIL | WORCESTER, MA | 11/06/14 12:10 | 11/06/14 |
| L1426671-04 | SED-02 | SOIL | WORCESTER, MA | 11/06/14 12:11 | 11/06/14 |
| L1426671-05 | PE-42 | SOIL | WORCESTER, MA | 11/06/14 13:15 | 11/06/14 |
| L1426671-06 | PE-43 | SOIL | WORCESTER, MA | 11/06/14 15:13 | 11/06/14 |

Project Name: HOLY CROSS FIELDHOUSE

Lab Number: L1426671

Project Number: Not Specified

Report Date: 11/07/14

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

| | | |
|--|---|-----|
| An affirmative response to questions A through F is required for "Presumptive Certainty" status | | |
| A | Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times? | YES |
| B | Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed? | YES |
| C | Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances? | YES |
| D | Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?" | YES |
| E a. | VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). | N/A |
| E b. | APH and TO-15 Methods only: Was the complete analyte list reported for each method? | N/A |
| F | Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)? | YES |
| A response to questions G, H and I is required for "Presumptive Certainty" status | | |
| G | Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)? | YES |
| H | Were all QC performance standards specified in the CAM protocol(s) achieved? | NO |
| I | Were results reported for the complete analyte list specified in the selected CAM protocol(s)? | NO |
| For any questions answered "No", please refer to the case narrative section on the following page(s). | | |

Please note that sample matrix information is located in the Sample Results section of this report.



Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1426671
Report Date: 11/07/14

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1426671
Report Date: 11/07/14

Case Narrative (continued)

MCP Related Narratives

Sample Receipt

In reference to question H:

A Matrix Spike was not submitted for the analysis of Metals.


Metals

In reference to question I:

All samples were analyzed for a subset of MCP elements per the Chain of Custody.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

 Michelle M. Morris

Title: Technical Director/Representative

Date: 11/07/14

ORGANICS

PCBS

Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1426671
Report Date: 11/07/14

SAMPLE RESULTS

Lab ID: L1426671-02
Client ID: PE-40
Sample Location: WORCESTER, MA
Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 11/07/14 13:23
Analyst: JT
Percent Solids: 84%

Date Collected: 11/06/14 11:39
Date Received: 11/06/14
Field Prep: Not Specified
Extraction Method: EPA 3540C
Extraction Date: 11/06/14 17:16
Cleanup Method: EPA 3665A
Cleanup Date: 11/07/14
Cleanup Method: EPA 3660B
Cleanup Date: 11/07/14

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|-------|------|-----|-----------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 39.1 | -- | 1 | A |
| Aroclor 1221 | ND | | ug/kg | 39.1 | -- | 1 | A |
| Aroclor 1232 | ND | | ug/kg | 39.1 | -- | 1 | A |
| Aroclor 1242 | ND | | ug/kg | 39.1 | -- | 1 | A |
| Aroclor 1248 | ND | | ug/kg | 39.1 | -- | 1 | A |
| Aroclor 1254 | ND | | ug/kg | 39.1 | -- | 1 | A |
| Aroclor 1260 | ND | | ug/kg | 39.1 | -- | 1 | A |
| Aroclor 1262 | ND | | ug/kg | 39.1 | -- | 1 | A |
| Aroclor 1268 | ND | | ug/kg | 39.1 | -- | 1 | A |
| PCBs, Total | ND | | ug/kg | 39.1 | -- | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 46 | | 30-150 | A |
| Decachlorobiphenyl | 36 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 51 | | 30-150 | B |
| Decachlorobiphenyl | 40 | | 30-150 | B |

Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1426671
Report Date: 11/07/14

SAMPLE RESULTS

Lab ID: L1426671-03
Client ID: PE-41
Sample Location: WORCESTER, MA
Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 11/07/14 13:36
Analyst: JT
Percent Solids: 88%

Date Collected: 11/06/14 12:10
Date Received: 11/06/14
Field Prep: Not Specified
Extraction Method: EPA 3540C
Extraction Date: 11/06/14 17:16
Cleanup Method: EPA 3665A
Cleanup Date: 11/07/14
Cleanup Method: EPA 3660B
Cleanup Date: 11/07/14

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|-------|------|-----|-----------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 36.9 | -- | 1 | A |
| Aroclor 1221 | ND | | ug/kg | 36.9 | -- | 1 | A |
| Aroclor 1232 | ND | | ug/kg | 36.9 | -- | 1 | A |
| Aroclor 1242 | ND | | ug/kg | 36.9 | -- | 1 | A |
| Aroclor 1248 | ND | | ug/kg | 36.9 | -- | 1 | A |
| Aroclor 1254 | ND | | ug/kg | 36.9 | -- | 1 | A |
| Aroclor 1260 | 50.8 | | ug/kg | 36.9 | -- | 1 | B |
| Aroclor 1262 | ND | | ug/kg | 36.9 | -- | 1 | A |
| Aroclor 1268 | ND | | ug/kg | 36.9 | -- | 1 | A |
| PCBs, Total | 50.8 | | ug/kg | 36.9 | -- | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 72 | | 30-150 | A |
| Decachlorobiphenyl | 61 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 75 | | 30-150 | B |
| Decachlorobiphenyl | 63 | | 30-150 | B |

Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1426671
Report Date: 11/07/14

SAMPLE RESULTS

Lab ID: L1426671-05
Client ID: PE-42
Sample Location: WORCESTER, MA
Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 11/07/14 13:49
Analyst: JT
Percent Solids: 86%

Date Collected: 11/06/14 13:15
Date Received: 11/06/14
Field Prep: Not Specified
Extraction Method: EPA 3540C
Extraction Date: 11/06/14 17:16
Cleanup Method: EPA 3665A
Cleanup Date: 11/07/14
Cleanup Method: EPA 3660B
Cleanup Date: 11/07/14

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|-------|------|-----|-----------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 37.3 | -- | 1 | A |
| Aroclor 1221 | ND | | ug/kg | 37.3 | -- | 1 | A |
| Aroclor 1232 | ND | | ug/kg | 37.3 | -- | 1 | A |
| Aroclor 1242 | ND | | ug/kg | 37.3 | -- | 1 | A |
| Aroclor 1248 | ND | | ug/kg | 37.3 | -- | 1 | A |
| Aroclor 1254 | ND | | ug/kg | 37.3 | -- | 1 | A |
| Aroclor 1260 | 180 | | ug/kg | 37.3 | -- | 1 | B |
| Aroclor 1262 | ND | | ug/kg | 37.3 | -- | 1 | A |
| Aroclor 1268 | ND | | ug/kg | 37.3 | -- | 1 | A |
| PCBs, Total | 180 | | ug/kg | 37.3 | -- | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 61 | | 30-150 | A |
| Decachlorobiphenyl | 46 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 63 | | 30-150 | B |
| Decachlorobiphenyl | 48 | | 30-150 | B |

Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1426671
Report Date: 11/07/14

SAMPLE RESULTS

Lab ID: L1426671-06
Client ID: PE-43
Sample Location: WORCESTER, MA
Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 11/07/14 14:03
Analyst: JT
Percent Solids: 84%

Date Collected: 11/06/14 15:13
Date Received: 11/06/14
Field Prep: Not Specified
Extraction Method: EPA 3540C
Extraction Date: 11/06/14 17:16
Cleanup Method: EPA 3665A
Cleanup Date: 11/07/14
Cleanup Method: EPA 3660B
Cleanup Date: 11/07/14

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|-------|------|-----|-----------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 38.5 | -- | 1 | A |
| Aroclor 1221 | ND | | ug/kg | 38.5 | -- | 1 | A |
| Aroclor 1232 | ND | | ug/kg | 38.5 | -- | 1 | A |
| Aroclor 1242 | ND | | ug/kg | 38.5 | -- | 1 | A |
| Aroclor 1248 | ND | | ug/kg | 38.5 | -- | 1 | A |
| Aroclor 1254 | ND | | ug/kg | 38.5 | -- | 1 | A |
| Aroclor 1260 | ND | | ug/kg | 38.5 | -- | 1 | B |
| Aroclor 1262 | ND | | ug/kg | 38.5 | -- | 1 | A |
| Aroclor 1268 | ND | | ug/kg | 38.5 | -- | 1 | A |
| PCBs, Total | ND | | ug/kg | 38.5 | -- | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 69 | | 30-150 | A |
| Decachlorobiphenyl | 52 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 72 | | 30-150 | B |
| Decachlorobiphenyl | 57 | | 30-150 | B |

Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1426671**Project Number:** Not Specified**Report Date:** 11/07/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8082A
 Analytical Date: 11/07/14 14:16
 Analyst: JT

Extraction Method: EPA 3540C
 Extraction Date: 11/06/14 17:16
 Cleanup Method: EPA 3665A
 Cleanup Date: 11/07/14
 Cleanup Method: EPA 3660B
 Cleanup Date: 11/07/14

| Parameter | Result | Qualifier | Units | RL | MDL | Column |
|--|--------|-----------|-------|------|-----|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab for sample(s): 02-03,05-06 Batch: WG738278-1 | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 33.2 | -- | A |
| Aroclor 1221 | ND | | ug/kg | 33.2 | -- | A |
| Aroclor 1232 | ND | | ug/kg | 33.2 | -- | A |
| Aroclor 1242 | ND | | ug/kg | 33.2 | -- | A |
| Aroclor 1248 | ND | | ug/kg | 33.2 | -- | A |
| Aroclor 1254 | ND | | ug/kg | 33.2 | -- | A |
| Aroclor 1260 | ND | | ug/kg | 33.2 | -- | A |
| Aroclor 1262 | ND | | ug/kg | 33.2 | -- | A |
| Aroclor 1268 | ND | | ug/kg | 33.2 | -- | A |
| PCBs, Total | ND | | ug/kg | 33.2 | -- | A |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|-----------|-----------|------------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 61 | | 30-150 | A |
| Decachlorobiphenyl | 47 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 61 | | 30-150 | B |
| Decachlorobiphenyl | 51 | | 30-150 | B |

Lab Control Sample Analysis

Batch Quality Control

Project Name: HOLY CROSS FIELDHOUSE

Project Number: Not Specified

Lab Number: L1426671

Report Date: 11/07/14

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits | Column |
|--|------------------|------|-------------------|------|---------------------|-----|------|---------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab Associated sample(s): 02-03,05-06 Batch: WG738278-2 WG738278-3 | | | | | | | | | |
| Aroclor 1016 | 90 | | 87 | | 40-140 | 3 | | 30 | A |
| Aroclor 1260 | 72 | | 75 | | 40-140 | 4 | | 30 | A |

| Surrogate | LCS %Recovery | Qual | LCSD %Recovery | Qual | Acceptance Criteria | Column |
|------------------------------|------------------|------|-------------------|------|------------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 79 | | 75 | | 30-150 | A |
| Decachlorobiphenyl | 62 | | 66 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 75 | | 74 | | 30-150 | B |
| Decachlorobiphenyl | 62 | | 65 | | 30-150 | B |

METALS

Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1426671**Project Number:** Not Specified**Report Date:** 11/07/14**SAMPLE RESULTS**

Lab ID: L1426671-02

Date Collected: 11/06/14 11:39

Client ID: PE-40

Date Received: 11/06/14

Sample Location: WORCESTER, MA

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 84%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|------------------------------------|--------|-----------|-------|-------|-----|-----------------|----------------|----------------|-------------|-------------------|---------|
| MCP Total Metals - Westborough Lab | | | | | | | | | | | |
| Arsenic, Total | 17 | | mg/kg | 0.48 | -- | 1 | 11/06/14 22:08 | 11/07/14 10:08 | EPA 3050B | 97,6010C | JH |
| Barium, Total | 35 | | mg/kg | 0.48 | -- | 1 | 11/06/14 22:08 | 11/07/14 10:08 | EPA 3050B | 97,6010C | JH |
| Cadmium, Total | ND | | mg/kg | 0.48 | -- | 1 | 11/06/14 22:08 | 11/07/14 10:08 | EPA 3050B | 97,6010C | JH |
| Chromium, Total | 20 | | mg/kg | 0.48 | -- | 1 | 11/06/14 22:08 | 11/07/14 10:08 | EPA 3050B | 97,6010C | JH |
| Lead, Total | 6.0 | | mg/kg | 2.4 | -- | 1 | 11/06/14 22:08 | 11/07/14 10:08 | EPA 3050B | 97,6010C | JH |
| Mercury, Total | ND | | mg/kg | 0.083 | -- | 1 | 11/07/14 09:20 | 11/07/14 11:13 | EPA 7471B | 97,7471B | MC |
| Selenium, Total | ND | | mg/kg | 2.4 | -- | 1 | 11/06/14 22:08 | 11/07/14 10:08 | EPA 3050B | 97,6010C | JH |
| Silver, Total | ND | | mg/kg | 0.48 | -- | 1 | 11/06/14 22:08 | 11/07/14 10:08 | EPA 3050B | 97,6010C | JH |



Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1426671**Project Number:** Not Specified**Report Date:** 11/07/14**SAMPLE RESULTS**

Lab ID: L1426671-03

Date Collected: 11/06/14 12:10

Client ID: PE-41

Date Received: 11/06/14

Sample Location: WORCESTER, MA

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 88%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|------------------------------------|--------|-----------|-------|-------|-----|-----------------|----------------|----------------|-------------|-------------------|---------|
| MCP Total Metals - Westborough Lab | | | | | | | | | | | |
| Arsenic, Total | 18 | | mg/kg | 0.43 | -- | 1 | 11/06/14 22:08 | 11/07/14 10:12 | EPA 3050B | 97,6010C | JH |
| Barium, Total | 43 | | mg/kg | 0.43 | -- | 1 | 11/06/14 22:08 | 11/07/14 10:12 | EPA 3050B | 97,6010C | JH |
| Cadmium, Total | ND | | mg/kg | 0.43 | -- | 1 | 11/06/14 22:08 | 11/07/14 10:12 | EPA 3050B | 97,6010C | JH |
| Chromium, Total | 22 | | mg/kg | 0.43 | -- | 1 | 11/06/14 22:08 | 11/07/14 10:12 | EPA 3050B | 97,6010C | JH |
| Lead, Total | 6.9 | | mg/kg | 2.2 | -- | 1 | 11/06/14 22:08 | 11/07/14 10:12 | EPA 3050B | 97,6010C | JH |
| Mercury, Total | ND | | mg/kg | 0.076 | -- | 1 | 11/07/14 09:20 | 11/07/14 11:14 | EPA 7471B | 97,7471B | MC |
| Selenium, Total | ND | | mg/kg | 2.2 | -- | 1 | 11/06/14 22:08 | 11/07/14 10:12 | EPA 3050B | 97,6010C | JH |
| Silver, Total | ND | | mg/kg | 0.43 | -- | 1 | 11/06/14 22:08 | 11/07/14 10:12 | EPA 3050B | 97,6010C | JH |



Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1426671**Project Number:** Not Specified**Report Date:** 11/07/14**SAMPLE RESULTS**

Lab ID: L1426671-05

Date Collected: 11/06/14 13:15

Client ID: PE-42

Date Received: 11/06/14

Sample Location: WORCESTER, MA

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 86%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|------------------------------------|--------|-----------|-------|-------|-----|-----------------|----------------|----------------|-------------|-------------------|---------|
| MCP Total Metals - Westborough Lab | | | | | | | | | | | |
| Arsenic, Total | 26 | | mg/kg | 0.46 | -- | 1 | 11/06/14 22:08 | 11/07/14 10:16 | EPA 3050B | 97,6010C | JH |
| Barium, Total | 32 | | mg/kg | 0.46 | -- | 1 | 11/06/14 22:08 | 11/07/14 10:16 | EPA 3050B | 97,6010C | JH |
| Cadmium, Total | ND | | mg/kg | 0.46 | -- | 1 | 11/06/14 22:08 | 11/07/14 10:16 | EPA 3050B | 97,6010C | JH |
| Chromium, Total | 20 | | mg/kg | 0.46 | -- | 1 | 11/06/14 22:08 | 11/07/14 10:16 | EPA 3050B | 97,6010C | JH |
| Lead, Total | 14 | | mg/kg | 2.3 | -- | 1 | 11/06/14 22:08 | 11/07/14 10:16 | EPA 3050B | 97,6010C | JH |
| Mercury, Total | ND | | mg/kg | 0.073 | -- | 1 | 11/07/14 09:20 | 11/07/14 11:16 | EPA 7471B | 97,7471B | MC |
| Selenium, Total | ND | | mg/kg | 2.3 | -- | 1 | 11/06/14 22:08 | 11/07/14 10:16 | EPA 3050B | 97,6010C | JH |
| Silver, Total | ND | | mg/kg | 0.46 | -- | 1 | 11/06/14 22:08 | 11/07/14 10:16 | EPA 3050B | 97,6010C | JH |



Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1426671**Project Number:** Not Specified**Report Date:** 11/07/14**SAMPLE RESULTS**

Lab ID: L1426671-06

Date Collected: 11/06/14 15:13

Client ID: PE-43

Date Received: 11/06/14

Sample Location: WORCESTER, MA

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 84%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|------------------------------------|--------|-----------|-------|-------|-----|-----------------|----------------|----------------|-------------|-------------------|---------|
| MCP Total Metals - Westborough Lab | | | | | | | | | | | |
| Arsenic, Total | 17 | | mg/kg | 0.46 | -- | 1 | 11/06/14 22:08 | 11/07/14 10:39 | EPA 3050B | 97,6010C | JH |
| Barium, Total | 40 | | mg/kg | 0.46 | -- | 1 | 11/06/14 22:08 | 11/07/14 10:39 | EPA 3050B | 97,6010C | JH |
| Cadmium, Total | ND | | mg/kg | 0.46 | -- | 1 | 11/06/14 22:08 | 11/07/14 10:39 | EPA 3050B | 97,6010C | JH |
| Chromium, Total | 24 | | mg/kg | 0.46 | -- | 1 | 11/06/14 22:08 | 11/07/14 10:39 | EPA 3050B | 97,6010C | JH |
| Lead, Total | 6.0 | | mg/kg | 2.3 | -- | 1 | 11/06/14 22:08 | 11/07/14 10:39 | EPA 3050B | 97,6010C | JH |
| Mercury, Total | ND | | mg/kg | 0.078 | -- | 1 | 11/07/14 09:20 | 11/07/14 11:18 | EPA 7471B | 97,7471B | MC |
| Selenium, Total | ND | | mg/kg | 2.3 | -- | 1 | 11/06/14 22:08 | 11/07/14 10:39 | EPA 3050B | 97,6010C | JH |
| Silver, Total | ND | | mg/kg | 0.46 | -- | 1 | 11/06/14 22:08 | 11/07/14 10:39 | EPA 3050B | 97,6010C | JH |



Project Name: HOLY CROSS FIELDHOUSE

Lab Number: L1426671

Project Number: Not Specified

Report Date: 11/07/14

Method Blank Analysis Batch Quality Control

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|---|--------|-----------|-------|------|-----|--------------------|------------------|------------------|----------------------|---------|
| MCP Total Metals - Westborough Lab for sample(s): 02-03,05-06 Batch: WG738326-1 | | | | | | | | | | |
| Arsenic, Total | ND | | mg/kg | 0.40 | -- | 1 | 11/06/14 22:08 | 11/07/14 09:57 | 97,6010C | JH |
| Barium, Total | ND | | mg/kg | 0.40 | -- | 1 | 11/06/14 22:08 | 11/07/14 09:57 | 97,6010C | JH |
| Cadmium, Total | ND | | mg/kg | 0.40 | -- | 1 | 11/06/14 22:08 | 11/07/14 09:57 | 97,6010C | JH |
| Chromium, Total | ND | | mg/kg | 0.40 | -- | 1 | 11/06/14 22:08 | 11/07/14 09:57 | 97,6010C | JH |
| Lead, Total | ND | | mg/kg | 2.0 | -- | 1 | 11/06/14 22:08 | 11/07/14 09:57 | 97,6010C | JH |
| Selenium, Total | ND | | mg/kg | 2.0 | -- | 1 | 11/06/14 22:08 | 11/07/14 09:57 | 97,6010C | JH |
| Silver, Total | ND | | mg/kg | 0.40 | -- | 1 | 11/06/14 22:08 | 11/07/14 09:57 | 97,6010C | JH |

Prep Information

Digestion Method: EPA 3050B

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|---|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| MCP Total Metals - Westborough Lab for sample(s): 02-03,05-06 Batch: WG738400-1 | | | | | | | | | | |
| Mercury, Total | ND | | mg/kg | 0.083 | -- | 1 | 11/07/14 09:20 | 11/07/14 11:07 | 97,7471B | MC |

Prep Information

Digestion Method: EPA 7471B



Lab Control Sample Analysis**Batch Quality Control****Project Name:** HOLY CROSS FIELDHOUSE**Lab Number:** L1426671**Project Number:** Not Specified**Report Date:** 11/07/14

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|--|------------------|------|-------------------|------|---------------------|-----|------|------------|
| MCP Total Metals - Westborough Lab Associated sample(s): 02-03,05-06 Batch: WG738326-2 WG738326-3 SRM Lot Number: D083-540 | | | | | | | | |
| Arsenic, Total | 90 | | 106 | | 78-122 | 16 | | 30 |
| Barium, Total | 90 | | 102 | | 82-117 | 13 | | 30 |
| Cadmium, Total | 85 | | 96 | | 82-118 | 12 | | 30 |
| Chromium, Total | 86 | | 98 | | 79-121 | 13 | | 30 |
| Lead, Total | 83 | | 98 | | 81-119 | 17 | | 30 |
| Selenium, Total | 90 | | 102 | | 78-123 | 13 | | 30 |
| Silver, Total | 88 | | 102 | | 74-125 | 15 | | 30 |

| | | | | | | | | |
|--|-----|--|-----|--|--------|---|--|----|
| MCP Total Metals - Westborough Lab Associated sample(s): 02-03,05-06 Batch: WG738400-2 WG738400-3 SRM Lot Number: D083-540 | | | | | | | | |
| Mercury, Total | 105 | | 107 | | 75-126 | 2 | | 30 |

INORGANICS & MISCELLANEOUS

Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1426671
Report Date: 11/07/14

SAMPLE RESULTS

Lab ID: L1426671-02
Client ID: PE-40
Sample Location: WORCESTER, MA
Matrix: Soil

Date Collected: 11/06/14 11:39
Date Received: 11/06/14
Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Solids, Total | 83.6 | | % | 0.100 | NA | 1 | - | 11/06/14 22:23 | 30,2540G | RT |



Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1426671
Report Date: 11/07/14

SAMPLE RESULTS

Lab ID: L1426671-03
Client ID: PE-41
Sample Location: WORCESTER, MA
Matrix: Soil

Date Collected: 11/06/14 12:10
Date Received: 11/06/14
Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Solids, Total | 87.6 | | % | 0.100 | NA | 1 | - | 11/06/14 22:23 | 30,2540G | RT |



Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1426671
Report Date: 11/07/14

SAMPLE RESULTS

Lab ID: L1426671-05
Client ID: PE-42
Sample Location: WORCESTER, MA
Matrix: Soil

Date Collected: 11/06/14 13:15
Date Received: 11/06/14
Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Solids, Total | 85.8 | | % | 0.100 | NA | 1 | - | 11/06/14 22:23 | 30,2540G | RT |



Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1426671
Report Date: 11/07/14

SAMPLE RESULTS

Lab ID: L1426671-06
Client ID: PE-43
Sample Location: WORCESTER, MA
Matrix: Soil

Date Collected: 11/06/14 15:13
Date Received: 11/06/14
Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Solids, Total | 83.9 | | % | 0.100 | NA | 1 | - | 11/06/14 22:23 | 30,2540G | RT |



Lab Duplicate Analysis
Batch Quality Control**Project Name:** HOLY CROSS FIELDHOUSE**Project Number:** Not Specified**Lab Number:** L1426671**Report Date:** 11/07/14

| Parameter | Native Sample | Duplicate Sample | Units | RPD | Qual | RPD Limits |
|--|---------------|------------------|-------|-----|------|------------|
| General Chemistry - Westborough Lab Associated sample(s): 02-03,05-06 QC Batch ID: WG738347-1 QC Sample: L1425906-35 Client ID: DUP Sample | | | | | | |
| Solids, Total | 93.0 | 92.7 | % | 0 | | 20 |

Project Name: HOLY CROSS FIELDHOUSE**Project Number:** Not Specified**Lab Number:** L1426671**Report Date:** 11/07/14**Sample Receipt and Container Information**

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA**Cooler Information Custody Seal****Cooler**

A Absent

Container Information

| Container ID | Container Type | Cooler | pH | Temp deg C | Pres | Seal | Analysis(*) |
|--------------|-------------------------|--------|-----|---------------|------|--------|--|
| L1426671-01A | Amber 250ml unpreserved | A | N/A | 2.4 | Y | Absent | HOLD-METAL(180),HOLD-8082() |
| L1426671-02A | Amber 250ml unpreserved | A | N/A | 2.4 | Y | Absent | MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),TS(7),MCP-8082-10-3540C(365),MCP-AG-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180) |
| L1426671-03A | Amber 250ml unpreserved | A | N/A | 2.4 | Y | Absent | MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),TS(7),MCP-8082-10-3540C(365),MCP-AG-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180) |
| L1426671-04A | Amber 250ml unpreserved | A | N/A | 2.4 | Y | Absent | HOLD-METAL(180),HOLD-8082() |
| L1426671-05A | Amber 250ml unpreserved | A | N/A | 2.4 | Y | Absent | MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),TS(7),MCP-8082-10-3540C(365),MCP-AG-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180) |
| L1426671-06A | Amber 250ml unpreserved | A | N/A | 2.4 | Y | Absent | MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),TS(7),MCP-8082-10-3540C(365),MCP-AG-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180) |

*Values in parentheses indicate holding time in days



Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1426671**Project Number:** Not Specified**Report Date:** 11/07/14

GLOSSARY

Acronyms

| | |
|------|---|
| EDL | - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME). |
| EPA | - Environmental Protection Agency. |
| LCS | - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes. |
| LCSD | - Laboratory Control Sample Duplicate: Refer to LCS. |
| LFB | - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes. |
| MDL | - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. |
| MS | - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. |
| MSD | - Matrix Spike Sample Duplicate: Refer to MS. |
| NA | - Not Applicable. |
| NC | - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit. |
| NI | - Not Ignitable. |
| RL | - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable. |
| RPD | - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report. |
| SRM | - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples. |

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

Report Format: Data Usability Report



Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1426671
Report Date: 11/07/14

Data Qualifiers

- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the reporting limit (RL) for the sample.

Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1426671
Report Date: 11/07/14

REFERENCES

- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.
- 97 EPA Test Methods (SW-846) with QC Requirements & Performance Standards for the Analysis of EPA SW-846 Methods under the Massachusetts Contingency Plan, WSC-CAM-IIA, IIB, IIIA, IIIB, IIIC, IIID, VA, VB, VC, VIA, VIB, VIIIA and VIIIB, July 2010.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

Last revised April 15, 2014

The following analytes are not included in our NELAP Scope of Accreditation:

Westborough Facility

EPA 524.2: Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.

EPA 8260C: 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide), Methyl methacrylate, Azobenzene.

EPA 8330A/B: PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT.

EPA 8270D: 1-Methylnaphthalene, Dimethylnaphthalene, 1,4-Diphenylhydrazine.

EPA 625: 4-Chloroaniline, 4-Methylphenol.

SM4500: Soil: Total Phosphorus, TKN, NO₂, NO₃.

EPA 9071: Total Petroleum Hydrocarbons, Oil & Grease.

Mansfield Facility

EPA 8270D: Biphenyl.

EPA 2540D: TSS

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water

EPA 200.8: Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, Tl; **EPA 200.7:** Ba, Be, Ca, Cd, Cr, Cu, Na; **EPA 245.1:** Mercury;

EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO₃-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**

EPA 332: Perchlorate.

Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.

Non-Potable Water

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, Tl, Zn;

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, Ti, Tl, V, Zn;

EPA 245.1, SM4500H-B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC,

SM426C, SM4500NH₃-BH, EPA 350.1: Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO₃-F,**

EPA 353.2: Nitrate-N, **SM4500NH₃-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4,**

SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.

EPA 624: Volatile Halocarbons & Aromatics,

EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF.

For a complete listing of analytes and methods, please contact your Alpha Project Manager.



CHAIN OF CUSTODY

PAGE 1 OF 1

WESTBORO, MA
TEL: 508-898-9220
FAX: 508-898-9193

MANSFIELD, MA
TEL: 508-822-9300
FAX: 508-822-3288

Project Information

Project Name: Holy Cross FieldhouseProject Location: Worcester MA

Project #: _____

Project Manager: Richard Gang

ALPHA Quote #: _____

Turn-Around Time

☒ Standard☒ RUSH (only confirmed if pre-approved)

As indicated

Date Due: 11/07/14 Time: _____

Client Information

Client: Cooperstown EnvironmentalAddress: 23 Main Street
Andover MA 01810Phone: 978-470-4755

Fax: _____

Email: richard@cooperstownenv.com☐ These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

If MS is required, indicate in Sample Specific Comments which samples and what tests MS to be performed.
(Note: All CAM methods for inorganic analyses require MS every 20 soil samples)

* 3500 B/3540C of SW-846 detect limit < 1ppmDate Rec'd in Lab: 11/06/14ALPHA Job #: L1426671

Report Information - Data Deliverables

☐ FAX☒ EMAIL☒ ADEX☐ Add'l Deliverables

Billing Information

☒ Same as Client info

PO #: _____

Regulatory Requirements/Report Limits

State/Fed Program MA MCP/EPA Criteria PCBs detect limit < 1ppm

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO

☒ Yes ☐ No

Are MCP Analytical Methods Required?

☒ Yes ☒ No

Is Matrix Spike (MS) Required on this SDG? (If yes see note in Comments)

☐ Yes ☒ No

Are CT RCP (Reasonable Confidence Protocols) Required?

ANALYSIS
PCBs, SOX, HCT, &
RCP & Metals

SAMPLE HANDLING

Filtration _____

☐ Done☒ Not needed☐ Lab to do

Preservation

☐ Lab to do

(Please specify below)

Sample Specific Comments

| ALPHA Lab ID (Lab Use Only) | Sample ID | Collection | | Sample Matrix | Sampler's Initials | PCE | RCE | | | | | | | | | | | (Please specify below) | LES |
|--------------------------------|-----------|------------|-------|---------------|--------------------|-----|-----|--|--|--|--|--|--|--|--|--|--|------------------------|-----|
| | | Date | Time | | | | | | | | | | | | | | | | |
| 26671 -01 | SED-01 | 11/6/14 | 11:30 | SOIL | AN | X | X | | | | | | | | | | | HOLD | 1 |
| -02 | PE-40 | | 11:39 | SEDIMENT | AN | X | X | | | | | | | | | | | 1 DAY TURN AROUND TIME | 1 |
| -03 | PE-41 | | 12:10 | SOIL | AN | X | X | | | | | | | | | | | 1 DAY TURN AROUND TIME | 1 |
| -04 | SED-02 | | 12:11 | SEDIMENT | AN | X | X | | | | | | | | | | | HOLD | 1 |
| -05 | PE-42 | | 1:15 | SOIL | AN | X | X | | | | | | | | | | | 1 DAY TURN AROUND TIME | 1 |
| -06 | PE-43 | | 3:13 | SOIL | AN | X | X | | | | | | | | | | | 1 DAY TURN AROUND TIME | 1 |
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PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT
MA MCP or CT RCP?

FORM NO: 01-01 (rev. 18-Jan-2010)

Container Type G GPreservative A ARelinquished By: [Signature]Date/Time 11/6/14 3:15Received By: [Signature]Date/Time 11/6/14 15:55

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.



ANALYTICAL REPORT

| | |
|-----------------|---|
| Lab Number: | L1426412 |
| Client: | Cooperstown Environmental LLC 23 Main Street Andover, MA 01810-0814 |
| ATTN: | Richard Gang |
| Phone: | (978) 470-4755 |
| Project Name: | HOLY CROSS FIELDHOUSE |
| Project Number: | Not Specified |
| Report Date: | 11/11/14 |

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1426412
Report Date: 11/11/14

| Alpha Sample ID | Client ID | Matrix | Sample Location | Collection Date/Time | Receive Date |
|--------------------|-----------|--------|--------------------|-------------------------|--------------|
| L1426412-01 | PE-25 | SOIL | WORCESTER, MA | 11/03/14 15:08 | 11/04/14 |
| L1426412-02 | PE-26 | SOIL | WORCESTER, MA | 11/03/14 15:35 | 11/04/14 |
| L1426412-03 | PE-27 | SOIL | WORCESTER, MA | 11/03/14 15:36 | 11/04/14 |
| L1426412-04 | PE-28 | SOIL | WORCESTER, MA | 11/03/14 15:45 | 11/04/14 |
| L1426412-05 | PE-29 | SOIL | WORCESTER, MA | 11/04/14 11:26 | 11/04/14 |
| L1426412-06 | PE-30 | SOIL | WORCESTER, MA | 11/04/14 11:27 | 11/04/14 |
| L1426412-07 | PE-31 | SOIL | WORCESTER, MA | 11/04/14 11:28 | 11/04/14 |
| L1426412-08 | PE-32 | SOIL | WORCESTER, MA | 11/04/14 11:29 | 11/04/14 |
| L1426412-09 | PE-33 | SOIL | WORCESTER, MA | 11/04/14 11:30 | 11/04/14 |
| L1426412-10 | PE-35 | SOIL | WORCESTER, MA | 11/04/14 11:32 | 11/04/14 |
| L1426412-11 | PE-238 | SOIL | WORCESTER, MA | 11/04/14 14:20 | 11/04/14 |

Project Name: HOLY CROSS FIELDHOUSE

Lab Number: L1426412

Project Number: Not Specified

Report Date: 11/11/14

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

| | | |
|--|---|-----|
| An affirmative response to questions A through F is required for "Presumptive Certainty" status | | |
| A | Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times? | YES |
| B | Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed? | YES |
| C | Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances? | YES |
| D | Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?" | YES |
| E a. | VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). | N/A |
| E b. | APH and TO-15 Methods only: Was the complete analyte list reported for each method? | N/A |
| F | Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)? | YES |
| A response to questions G, H and I is required for "Presumptive Certainty" status | | |
| G | Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)? | YES |
| H | Were all QC performance standards specified in the CAM protocol(s) achieved? | NO |
| I | Were results reported for the complete analyte list specified in the selected CAM protocol(s)? | NO |
| For any questions answered "No", please refer to the case narrative section on the following page(s). | | |

Please note that sample matrix information is located in the Sample Results section of this report.



Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1426412
Report Date: 11/11/14

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1426412
Report Date: 11/11/14

Case Narrative (continued)

MCP Related Narratives

Sample Receipt

In reference to question H:

A Matrix Spike was not submitted for the analysis of Metals.

Metals

In reference to question I:

All samples were analyzed for a subset of MCP elements per the Chain of Custody.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:



Cristin Walker

Title: Technical Director/Representative

Date: 11/11/14

ORGANICS

PCBS

Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1426412
Report Date: 11/11/14

SAMPLE RESULTS

Lab ID: L1426412-01
Client ID: PE-25
Sample Location: WORCESTER, MA
Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 11/07/14 07:17
Analyst: KB
Percent Solids: 90%

Date Collected: 11/03/14 15:08
Date Received: 11/04/14
Field Prep: Not Specified
Extraction Method: EPA 3540C
Extraction Date: 11/05/14 02:24
Cleanup Method: EPA 3665A
Cleanup Date: 11/06/14
Cleanup Method: EPA 3660B
Cleanup Date: 11/06/00

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|-------|------|-----|-----------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 35.2 | -- | 1 | A |
| Aroclor 1221 | ND | | ug/kg | 35.2 | -- | 1 | A |
| Aroclor 1232 | ND | | ug/kg | 35.2 | -- | 1 | A |
| Aroclor 1242 | ND | | ug/kg | 35.2 | -- | 1 | A |
| Aroclor 1248 | ND | | ug/kg | 35.2 | -- | 1 | A |
| Aroclor 1254 | ND | | ug/kg | 35.2 | -- | 1 | A |
| Aroclor 1260 | 233 | | ug/kg | 35.2 | -- | 1 | B |
| Aroclor 1262 | ND | | ug/kg | 35.2 | -- | 1 | A |
| Aroclor 1268 | ND | | ug/kg | 35.2 | -- | 1 | A |
| PCBs, Total | 233 | | ug/kg | 35.2 | -- | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 61 | | 30-150 | A |
| Decachlorobiphenyl | 61 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 65 | | 30-150 | B |
| Decachlorobiphenyl | 75 | | 30-150 | B |

Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1426412
Report Date: 11/11/14

SAMPLE RESULTS

Lab ID: L1426412-02
Client ID: PE-26
Sample Location: WORCESTER, MA
Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 11/07/14 07:34
Analyst: KB
Percent Solids: 88%

Date Collected: 11/03/14 15:35
Date Received: 11/04/14
Field Prep: Not Specified
Extraction Method: EPA 3540C
Extraction Date: 11/05/14 02:24
Cleanup Method: EPA 3665A
Cleanup Date: 11/06/14
Cleanup Method: EPA 3660B
Cleanup Date: 11/06/14

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|-------|------|-----|-----------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 36.8 | -- | 1 | A |
| Aroclor 1221 | ND | | ug/kg | 36.8 | -- | 1 | A |
| Aroclor 1232 | ND | | ug/kg | 36.8 | -- | 1 | A |
| Aroclor 1242 | ND | | ug/kg | 36.8 | -- | 1 | A |
| Aroclor 1248 | ND | | ug/kg | 36.8 | -- | 1 | A |
| Aroclor 1254 | ND | | ug/kg | 36.8 | -- | 1 | A |
| Aroclor 1260 | ND | | ug/kg | 36.8 | -- | 1 | A |
| Aroclor 1262 | ND | | ug/kg | 36.8 | -- | 1 | A |
| Aroclor 1268 | ND | | ug/kg | 36.8 | -- | 1 | A |
| PCBs, Total | ND | | ug/kg | 36.8 | -- | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 73 | | 30-150 | A |
| Decachlorobiphenyl | 77 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 79 | | 30-150 | B |
| Decachlorobiphenyl | 95 | | 30-150 | B |

Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1426412
Report Date: 11/11/14

SAMPLE RESULTS

Lab ID: L1426412-03
Client ID: PE-27
Sample Location: WORCESTER, MA
Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 11/07/14 07:50
Analyst: KB
Percent Solids: 87%

Date Collected: 11/03/14 15:36
Date Received: 11/04/14
Field Prep: Not Specified
Extraction Method: EPA 3540C
Extraction Date: 11/05/14 02:24
Cleanup Method: EPA 3665A
Cleanup Date: 11/06/14
Cleanup Method: EPA 3660B
Cleanup Date: 11/06/14

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|-------|------|-----|-----------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 37.7 | -- | 1 | A |
| Aroclor 1221 | ND | | ug/kg | 37.7 | -- | 1 | A |
| Aroclor 1232 | ND | | ug/kg | 37.7 | -- | 1 | A |
| Aroclor 1242 | ND | | ug/kg | 37.7 | -- | 1 | A |
| Aroclor 1248 | ND | | ug/kg | 37.7 | -- | 1 | A |
| Aroclor 1254 | ND | | ug/kg | 37.7 | -- | 1 | B |
| Aroclor 1260 | ND | | ug/kg | 37.7 | -- | 1 | B |
| Aroclor 1262 | ND | | ug/kg | 37.7 | -- | 1 | A |
| Aroclor 1268 | ND | | ug/kg | 37.7 | -- | 1 | A |
| PCBs, Total | ND | | ug/kg | 37.7 | -- | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 68 | | 30-150 | A |
| Decachlorobiphenyl | 70 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 75 | | 30-150 | B |
| Decachlorobiphenyl | 86 | | 30-150 | B |

Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1426412
Report Date: 11/11/14

SAMPLE RESULTS

Lab ID: L1426412-04
Client ID: PE-28
Sample Location: WORCESTER, MA
Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 11/07/14 08:07
Analyst: KB
Percent Solids: 84%

Date Collected: 11/03/14 15:45
Date Received: 11/04/14
Field Prep: Not Specified
Extraction Method: EPA 3540C
Extraction Date: 11/05/14 02:24
Cleanup Method: EPA 3665A
Cleanup Date: 11/06/14
Cleanup Method: EPA 3660B
Cleanup Date: 11/06/14

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|-------|------|-----|-----------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 39.0 | -- | 1 | A |
| Aroclor 1221 | ND | | ug/kg | 39.0 | -- | 1 | A |
| Aroclor 1232 | ND | | ug/kg | 39.0 | -- | 1 | A |
| Aroclor 1242 | ND | | ug/kg | 39.0 | -- | 1 | A |
| Aroclor 1248 | ND | | ug/kg | 39.0 | -- | 1 | A |
| Aroclor 1254 | ND | | ug/kg | 39.0 | -- | 1 | A |
| Aroclor 1260 | 689 | | ug/kg | 39.0 | -- | 1 | B |
| Aroclor 1262 | ND | | ug/kg | 39.0 | -- | 1 | A |
| Aroclor 1268 | ND | | ug/kg | 39.0 | -- | 1 | A |
| PCBs, Total | 689 | | ug/kg | 39.0 | -- | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 53 | | 30-150 | A |
| Decachlorobiphenyl | 65 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 54 | | 30-150 | B |
| Decachlorobiphenyl | 74 | | 30-150 | B |

Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1426412
Report Date: 11/11/14

SAMPLE RESULTS

Lab ID: L1426412-05
Client ID: PE-29
Sample Location: WORCESTER, MA
Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 11/07/14 08:24
Analyst: KB
Percent Solids: 89%

Date Collected: 11/04/14 11:26
Date Received: 11/04/14
Field Prep: Not Specified
Extraction Method: EPA 3540C
Extraction Date: 11/05/14 02:24
Cleanup Method: EPA 3665A
Cleanup Date: 11/06/14
Cleanup Method: EPA 3660B
Cleanup Date: 11/06/14

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|-------|------|-----|-----------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 36.1 | -- | 1 | A |
| Aroclor 1221 | ND | | ug/kg | 36.1 | -- | 1 | A |
| Aroclor 1232 | ND | | ug/kg | 36.1 | -- | 1 | A |
| Aroclor 1242 | ND | | ug/kg | 36.1 | -- | 1 | A |
| Aroclor 1248 | ND | | ug/kg | 36.1 | -- | 1 | A |
| Aroclor 1254 | ND | | ug/kg | 36.1 | -- | 1 | B |
| Aroclor 1260 | ND | | ug/kg | 36.1 | -- | 1 | B |
| Aroclor 1262 | ND | | ug/kg | 36.1 | -- | 1 | A |
| Aroclor 1268 | ND | | ug/kg | 36.1 | -- | 1 | A |
| PCBs, Total | ND | | ug/kg | 36.1 | -- | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 72 | | 30-150 | A |
| Decachlorobiphenyl | 74 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 78 | | 30-150 | B |
| Decachlorobiphenyl | 90 | | 30-150 | B |

Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1426412
Report Date: 11/11/14

SAMPLE RESULTS

Lab ID: L1426412-06
Client ID: PE-30
Sample Location: WORCESTER, MA
Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 11/07/14 08:41
Analyst: KB
Percent Solids: 86%

Date Collected: 11/04/14 11:27
Date Received: 11/04/14
Field Prep: Not Specified
Extraction Method: EPA 3540C
Extraction Date: 11/05/14 02:24
Cleanup Method: EPA 3665A
Cleanup Date: 11/06/14
Cleanup Method: EPA 3660B
Cleanup Date: 11/06/14

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|-------|------|-----|-----------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 37.6 | -- | 1 | A |
| Aroclor 1221 | ND | | ug/kg | 37.6 | -- | 1 | A |
| Aroclor 1232 | ND | | ug/kg | 37.6 | -- | 1 | A |
| Aroclor 1242 | ND | | ug/kg | 37.6 | -- | 1 | A |
| Aroclor 1248 | ND | | ug/kg | 37.6 | -- | 1 | A |
| Aroclor 1254 | ND | | ug/kg | 37.6 | -- | 1 | A |
| Aroclor 1260 | ND | | ug/kg | 37.6 | -- | 1 | B |
| Aroclor 1262 | ND | | ug/kg | 37.6 | -- | 1 | A |
| Aroclor 1268 | ND | | ug/kg | 37.6 | -- | 1 | A |
| PCBs, Total | ND | | ug/kg | 37.6 | -- | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 79 | | 30-150 | A |
| Decachlorobiphenyl | 81 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 85 | | 30-150 | B |
| Decachlorobiphenyl | 95 | | 30-150 | B |

Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1426412
Report Date: 11/11/14

SAMPLE RESULTS

Lab ID: L1426412-07
Client ID: PE-31
Sample Location: WORCESTER, MA
Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 11/07/14 08:57
Analyst: KB
Percent Solids: 85%

Date Collected: 11/04/14 11:28
Date Received: 11/04/14
Field Prep: Not Specified
Extraction Method: EPA 3540C
Extraction Date: 11/05/14 02:24
Cleanup Method: EPA 3665A
Cleanup Date: 11/07/14
Cleanup Method: EPA 3660B
Cleanup Date: 11/07/14

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|-------|------|-----|-----------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 38.8 | -- | 1 | A |
| Aroclor 1221 | ND | | ug/kg | 38.8 | -- | 1 | A |
| Aroclor 1232 | ND | | ug/kg | 38.8 | -- | 1 | A |
| Aroclor 1242 | ND | | ug/kg | 38.8 | -- | 1 | A |
| Aroclor 1248 | ND | | ug/kg | 38.8 | -- | 1 | A |
| Aroclor 1254 | ND | | ug/kg | 38.8 | -- | 1 | A |
| Aroclor 1260 | ND | | ug/kg | 38.8 | -- | 1 | A |
| Aroclor 1262 | ND | | ug/kg | 38.8 | -- | 1 | A |
| Aroclor 1268 | ND | | ug/kg | 38.8 | -- | 1 | A |
| PCBs, Total | ND | | ug/kg | 38.8 | -- | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 62 | | 30-150 | A |
| Decachlorobiphenyl | 73 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 67 | | 30-150 | B |
| Decachlorobiphenyl | 85 | | 30-150 | B |

Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1426412
Report Date: 11/11/14

SAMPLE RESULTS

Lab ID: L1426412-08
Client ID: PE-32
Sample Location: WORCESTER, MA
Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 11/07/14 09:14
Analyst: KB
Percent Solids: 86%

Date Collected: 11/04/14 11:29
Date Received: 11/04/14
Field Prep: Not Specified
Extraction Method: EPA 3540C
Extraction Date: 11/05/14 02:24
Cleanup Method: EPA 3665A
Cleanup Date: 11/06/14
Cleanup Method: EPA 3660B
Cleanup Date: 11/06/14

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|-------|------|-----|-----------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 37.0 | -- | 1 | A |
| Aroclor 1221 | ND | | ug/kg | 37.0 | -- | 1 | A |
| Aroclor 1232 | ND | | ug/kg | 37.0 | -- | 1 | A |
| Aroclor 1242 | ND | | ug/kg | 37.0 | -- | 1 | A |
| Aroclor 1248 | ND | | ug/kg | 37.0 | -- | 1 | A |
| Aroclor 1254 | ND | | ug/kg | 37.0 | -- | 1 | A |
| Aroclor 1260 | ND | | ug/kg | 37.0 | -- | 1 | A |
| Aroclor 1262 | ND | | ug/kg | 37.0 | -- | 1 | A |
| Aroclor 1268 | ND | | ug/kg | 37.0 | -- | 1 | A |
| PCBs, Total | ND | | ug/kg | 37.0 | -- | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 70 | | 30-150 | A |
| Decachlorobiphenyl | 76 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 75 | | 30-150 | B |
| Decachlorobiphenyl | 88 | | 30-150 | B |

Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1426412
Report Date: 11/11/14

SAMPLE RESULTS

Lab ID: L1426412-09
Client ID: PE-33
Sample Location: WORCESTER, MA
Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 11/07/14 09:48
Analyst: KB
Percent Solids: 85%

Date Collected: 11/04/14 11:30
Date Received: 11/04/14
Field Prep: Not Specified
Extraction Method: EPA 3540C
Extraction Date: 11/05/14 02:24
Cleanup Method: EPA 3665A
Cleanup Date: 11/06/14
Cleanup Method: EPA 3660B
Cleanup Date: 11/06/14

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|-------|------|-----|-----------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 38.6 | -- | 1 | A |
| Aroclor 1221 | ND | | ug/kg | 38.6 | -- | 1 | A |
| Aroclor 1232 | ND | | ug/kg | 38.6 | -- | 1 | A |
| Aroclor 1242 | ND | | ug/kg | 38.6 | -- | 1 | A |
| Aroclor 1248 | ND | | ug/kg | 38.6 | -- | 1 | A |
| Aroclor 1254 | ND | | ug/kg | 38.6 | -- | 1 | A |
| Aroclor 1260 | ND | | ug/kg | 38.6 | -- | 1 | A |
| Aroclor 1262 | ND | | ug/kg | 38.6 | -- | 1 | A |
| Aroclor 1268 | ND | | ug/kg | 38.6 | -- | 1 | A |
| PCBs, Total | ND | | ug/kg | 38.6 | -- | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 67 | | 30-150 | A |
| Decachlorobiphenyl | 73 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 72 | | 30-150 | B |
| Decachlorobiphenyl | 83 | | 30-150 | B |

Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1426412
Report Date: 11/11/14

SAMPLE RESULTS

Lab ID: L1426412-10
Client ID: PE-35
Sample Location: WORCESTER, MA
Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 11/07/14 10:04
Analyst: KB
Percent Solids: 86%

Date Collected: 11/04/14 11:32
Date Received: 11/04/14
Field Prep: Not Specified
Extraction Method: EPA 3540C
Extraction Date: 11/05/14 02:24
Cleanup Method: EPA 3665A
Cleanup Date: 11/06/14
Cleanup Method: EPA 3660B
Cleanup Date: 11/06/14

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|-------|------|-----|-----------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 37.4 | -- | 1 | A |
| Aroclor 1221 | ND | | ug/kg | 37.4 | -- | 1 | A |
| Aroclor 1232 | ND | | ug/kg | 37.4 | -- | 1 | A |
| Aroclor 1242 | ND | | ug/kg | 37.4 | -- | 1 | A |
| Aroclor 1248 | ND | | ug/kg | 37.4 | -- | 1 | A |
| Aroclor 1254 | ND | | ug/kg | 37.4 | -- | 1 | A |
| Aroclor 1260 | ND | | ug/kg | 37.4 | -- | 1 | A |
| Aroclor 1262 | ND | | ug/kg | 37.4 | -- | 1 | A |
| Aroclor 1268 | ND | | ug/kg | 37.4 | -- | 1 | A |
| PCBs, Total | ND | | ug/kg | 37.4 | -- | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 68 | | 30-150 | A |
| Decachlorobiphenyl | 77 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 74 | | 30-150 | B |
| Decachlorobiphenyl | 87 | | 30-150 | B |

Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1426412
Report Date: 11/11/14

SAMPLE RESULTS

Lab ID: L1426412-11
Client ID: PE-238
Sample Location: WORCESTER, MA
Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 11/07/14 10:21
Analyst: KB
Percent Solids: 89%

Date Collected: 11/04/14 14:20
Date Received: 11/04/14
Field Prep: Not Specified
Extraction Method: EPA 3540C
Extraction Date: 11/05/14 02:24
Cleanup Method: EPA 3665A
Cleanup Date: 11/06/14
Cleanup Method: EPA 3660B
Cleanup Date: 11/06/14

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|-------|------|-----|-----------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 35.8 | -- | 1 | A |
| Aroclor 1221 | ND | | ug/kg | 35.8 | -- | 1 | A |
| Aroclor 1232 | ND | | ug/kg | 35.8 | -- | 1 | A |
| Aroclor 1242 | ND | | ug/kg | 35.8 | -- | 1 | A |
| Aroclor 1248 | ND | | ug/kg | 35.8 | -- | 1 | A |
| Aroclor 1254 | ND | | ug/kg | 35.8 | -- | 1 | A |
| Aroclor 1260 | ND | | ug/kg | 35.8 | -- | 1 | A |
| Aroclor 1262 | ND | | ug/kg | 35.8 | -- | 1 | A |
| Aroclor 1268 | ND | | ug/kg | 35.8 | -- | 1 | A |
| PCBs, Total | ND | | ug/kg | 35.8 | -- | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 67 | | 30-150 | A |
| Decachlorobiphenyl | 76 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 72 | | 30-150 | B |
| Decachlorobiphenyl | 85 | | 30-150 | B |

Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1426412**Project Number:** Not Specified**Report Date:** 11/11/14

Method Blank Analysis Batch Quality Control

Analytical Method: 97,8082A
 Analytical Date: 11/07/14 10:38
 Analyst: KB

Extraction Method: EPA 3540C
 Extraction Date: 11/05/14 02:24
 Cleanup Method: EPA 3665A
 Cleanup Date: 11/07/14
 Cleanup Method: EPA 3660B
 Cleanup Date: 11/07/14

| Parameter | Result | Qualifier | Units | RL | MDL | Column |
|--|--------|-----------|-------|------|-----|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab for sample(s): 01-11 Batch: WG737581-1 | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 31.5 | -- | A |
| Aroclor 1221 | ND | | ug/kg | 31.5 | -- | A |
| Aroclor 1232 | ND | | ug/kg | 31.5 | -- | A |
| Aroclor 1242 | ND | | ug/kg | 31.5 | -- | A |
| Aroclor 1248 | ND | | ug/kg | 31.5 | -- | A |
| Aroclor 1254 | ND | | ug/kg | 31.5 | -- | A |
| Aroclor 1260 | ND | | ug/kg | 31.5 | -- | A |
| Aroclor 1262 | ND | | ug/kg | 31.5 | -- | A |
| Aroclor 1268 | ND | | ug/kg | 31.5 | -- | A |
| PCBs, Total | ND | | ug/kg | 31.5 | -- | A |

| Surrogate | %Recovery | Qualifier | Acceptance | Column |
|------------------------------|-----------|-----------|------------|--------|
| | | | Criteria | |
| 2,4,5,6-Tetrachloro-m-xylene | 56 | | 30-150 | A |
| Decachlorobiphenyl | 70 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 62 | | 30-150 | B |
| Decachlorobiphenyl | 80 | | 30-150 | B |

Lab Control Sample Analysis

Batch Quality Control

Project Name: HOLY CROSS FIELDHOUSE

Lab Number: L1426412

Project Number: Not Specified

Report Date: 11/11/14

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits | Column |
|--|------------------|------|-------------------|------|---------------------|-----|------|---------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab Associated sample(s): 01-11 Batch: WG737581-2 WG737581-3 | | | | | | | | | |
| Aroclor 1016 | 62 | | 60 | | 40-140 | 3 | | 30 | A |
| Aroclor 1260 | 70 | | 57 | | 40-140 | 20 | | 30 | A |

| Surrogate | LCS %Recovery | Qual | LCSD %Recovery | Qual | Acceptance Criteria | Column |
|------------------------------|------------------|------|-------------------|------|------------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 60 | | 47 | | 30-150 | A |
| Decachlorobiphenyl | 72 | | 54 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 64 | | 47 | | 30-150 | B |
| Decachlorobiphenyl | 79 | | 58 | | 30-150 | B |

METALS

Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1426412**Project Number:** Not Specified**Report Date:** 11/11/14**SAMPLE RESULTS**

Lab ID: L1426412-01

Date Collected: 11/03/14 15:08

Client ID: PE-25

Date Received: 11/04/14

Sample Location: WORCESTER, MA

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 90%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|-----------|--------|-----------|-------|----|-----|-----------------|---------------|---------------|-------------|-------------------|---------|
|-----------|--------|-----------|-------|----|-----|-----------------|---------------|---------------|-------------|-------------------|---------|

MCP Total Metals - Westborough Lab

| | | | | | | | | | | | |
|-----------------|-----|--|-------|-------|----|---|----------------|----------------|-----------|----------|----|
| Arsenic, Total | 16 | | mg/kg | 0.42 | -- | 1 | 11/06/14 18:12 | 11/07/14 15:09 | EPA 3050B | 97,6010C | MG |
| Barium, Total | 32 | | mg/kg | 0.42 | -- | 1 | 11/06/14 18:12 | 11/07/14 15:09 | EPA 3050B | 97,6010C | MG |
| Cadmium, Total | ND | | mg/kg | 0.42 | -- | 1 | 11/06/14 18:12 | 11/07/14 15:09 | EPA 3050B | 97,6010C | MG |
| Chromium, Total | 29 | | mg/kg | 0.42 | -- | 1 | 11/06/14 18:12 | 11/07/14 15:09 | EPA 3050B | 97,6010C | MG |
| Lead, Total | 8.5 | | mg/kg | 2.1 | -- | 1 | 11/06/14 18:12 | 11/07/14 15:09 | EPA 3050B | 97,6010C | MG |
| Mercury, Total | ND | | mg/kg | 0.074 | -- | 1 | 11/07/14 09:20 | 11/07/14 11:43 | EPA 7471B | 97,7471B | MC |
| Selenium, Total | ND | | mg/kg | 2.1 | -- | 1 | 11/06/14 18:12 | 11/07/14 15:09 | EPA 3050B | 97,6010C | MG |
| Silver, Total | ND | | mg/kg | 0.42 | -- | 1 | 11/06/14 18:12 | 11/07/14 15:09 | EPA 3050B | 97,6010C | MG |



Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1426412**Project Number:** Not Specified**Report Date:** 11/11/14**SAMPLE RESULTS**

Lab ID: L1426412-02

Date Collected: 11/03/14 15:35

Client ID: PE-26

Date Received: 11/04/14

Sample Location: WORCESTER, MA

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 88%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|------------------------------------|--------|-----------|-------|-------|-----|-----------------|----------------|----------------|-------------|-------------------|---------|
| MCP Total Metals - Westborough Lab | | | | | | | | | | | |
| Arsenic, Total | 21 | | mg/kg | 0.45 | -- | 1 | 11/06/14 18:12 | 11/07/14 15:43 | EPA 3050B | 97,6010C | MG |
| Barium, Total | 45 | | mg/kg | 0.45 | -- | 1 | 11/06/14 18:12 | 11/07/14 15:43 | EPA 3050B | 97,6010C | MG |
| Cadmium, Total | ND | | mg/kg | 0.45 | -- | 1 | 11/06/14 18:12 | 11/07/14 15:43 | EPA 3050B | 97,6010C | MG |
| Chromium, Total | 27 | | mg/kg | 0.45 | -- | 1 | 11/06/14 18:12 | 11/07/14 15:43 | EPA 3050B | 97,6010C | MG |
| Lead, Total | 6.7 | | mg/kg | 2.3 | -- | 1 | 11/06/14 18:12 | 11/07/14 15:43 | EPA 3050B | 97,6010C | MG |
| Mercury, Total | ND | | mg/kg | 0.073 | -- | 1 | 11/07/14 09:20 | 11/07/14 11:45 | EPA 7471B | 97,7471B | MC |
| Selenium, Total | ND | | mg/kg | 2.3 | -- | 1 | 11/06/14 18:12 | 11/07/14 15:43 | EPA 3050B | 97,6010C | MG |
| Silver, Total | ND | | mg/kg | 0.45 | -- | 1 | 11/06/14 18:12 | 11/07/14 15:43 | EPA 3050B | 97,6010C | MG |



Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1426412**Project Number:** Not Specified**Report Date:** 11/11/14**SAMPLE RESULTS**

Lab ID: L1426412-03

Date Collected: 11/03/14 15:36

Client ID: PE-27

Date Received: 11/04/14

Sample Location: WORCESTER, MA

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 87%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|------------------------------------|--------|-----------|-------|-------|-----|-----------------|----------------|----------------|-------------|-------------------|---------|
| MCP Total Metals - Westborough Lab | | | | | | | | | | | |
| Arsenic, Total | 21 | | mg/kg | 0.46 | -- | 1 | 11/06/14 18:12 | 11/07/14 15:47 | EPA 3050B | 97,6010C | MG |
| Barium, Total | 56 | | mg/kg | 0.46 | -- | 1 | 11/06/14 18:12 | 11/07/14 15:47 | EPA 3050B | 97,6010C | MG |
| Cadmium, Total | ND | | mg/kg | 0.46 | -- | 1 | 11/06/14 18:12 | 11/07/14 15:47 | EPA 3050B | 97,6010C | MG |
| Chromium, Total | 28 | | mg/kg | 0.46 | -- | 1 | 11/06/14 18:12 | 11/07/14 15:47 | EPA 3050B | 97,6010C | MG |
| Lead, Total | 7.4 | | mg/kg | 2.3 | -- | 1 | 11/06/14 18:12 | 11/07/14 15:47 | EPA 3050B | 97,6010C | MG |
| Mercury, Total | ND | | mg/kg | 0.076 | -- | 1 | 11/07/14 09:20 | 11/07/14 11:50 | EPA 7471B | 97,7471B | MC |
| Selenium, Total | ND | | mg/kg | 2.3 | -- | 1 | 11/06/14 18:12 | 11/07/14 15:47 | EPA 3050B | 97,6010C | MG |
| Silver, Total | ND | | mg/kg | 0.46 | -- | 1 | 11/06/14 18:12 | 11/07/14 15:47 | EPA 3050B | 97,6010C | MG |



Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1426412**Project Number:** Not Specified**Report Date:** 11/11/14**SAMPLE RESULTS**

Lab ID: L1426412-04

Date Collected: 11/03/14 15:45

Client ID: PE-28

Date Received: 11/04/14

Sample Location: WORCESTER, MA

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 84%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|-----------|--------|-----------|-------|----|-----|-----------------|---------------|---------------|-------------|-------------------|---------|
|-----------|--------|-----------|-------|----|-----|-----------------|---------------|---------------|-------------|-------------------|---------|

MCP Total Metals - Westborough Lab

| | | | | | | | | | | | |
|-----------------|-----|--|-------|-------|----|---|----------------|----------------|-----------|----------|----|
| Arsenic, Total | 25 | | mg/kg | 0.46 | -- | 1 | 11/06/14 18:12 | 11/07/14 15:51 | EPA 3050B | 97,6010C | MG |
| Barium, Total | 60 | | mg/kg | 0.46 | -- | 1 | 11/06/14 18:12 | 11/07/14 15:51 | EPA 3050B | 97,6010C | MG |
| Cadmium, Total | ND | | mg/kg | 0.46 | -- | 1 | 11/06/14 18:12 | 11/07/14 15:51 | EPA 3050B | 97,6010C | MG |
| Chromium, Total | 25 | | mg/kg | 0.46 | -- | 1 | 11/06/14 18:12 | 11/07/14 15:51 | EPA 3050B | 97,6010C | MG |
| Lead, Total | 9.8 | | mg/kg | 2.3 | -- | 1 | 11/06/14 18:12 | 11/07/14 15:51 | EPA 3050B | 97,6010C | MG |
| Mercury, Total | ND | | mg/kg | 0.077 | -- | 1 | 11/07/14 09:20 | 11/07/14 11:52 | EPA 7471B | 97,7471B | MC |
| Selenium, Total | ND | | mg/kg | 2.3 | -- | 1 | 11/06/14 18:12 | 11/07/14 15:51 | EPA 3050B | 97,6010C | MG |
| Silver, Total | ND | | mg/kg | 0.46 | -- | 1 | 11/06/14 18:12 | 11/07/14 15:51 | EPA 3050B | 97,6010C | MG |



Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1426412**Project Number:** Not Specified**Report Date:** 11/11/14**SAMPLE RESULTS**

Lab ID: L1426412-05

Date Collected: 11/04/14 11:26

Client ID: PE-29

Date Received: 11/04/14

Sample Location: WORCESTER, MA

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 89%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|-----------|--------|-----------|-------|----|-----|-----------------|---------------|---------------|-------------|-------------------|---------|
|-----------|--------|-----------|-------|----|-----|-----------------|---------------|---------------|-------------|-------------------|---------|

MCP Total Metals - Westborough Lab

| | | | | | | | | | | | |
|-----------------|-----|--|-------|-------|----|---|----------------|----------------|-----------|----------|----|
| Arsenic, Total | 21 | | mg/kg | 0.44 | -- | 1 | 11/06/14 18:12 | 11/07/14 15:54 | EPA 3050B | 97,6010C | MG |
| Barium, Total | 57 | | mg/kg | 0.44 | -- | 1 | 11/06/14 18:12 | 11/07/14 15:54 | EPA 3050B | 97,6010C | MG |
| Cadmium, Total | ND | | mg/kg | 0.44 | -- | 1 | 11/06/14 18:12 | 11/07/14 15:54 | EPA 3050B | 97,6010C | MG |
| Chromium, Total | 27 | | mg/kg | 0.44 | -- | 1 | 11/06/14 18:12 | 11/07/14 15:54 | EPA 3050B | 97,6010C | MG |
| Lead, Total | 6.1 | | mg/kg | 2.2 | -- | 1 | 11/06/14 18:12 | 11/07/14 15:54 | EPA 3050B | 97,6010C | MG |
| Mercury, Total | ND | | mg/kg | 0.071 | -- | 1 | 11/07/14 09:20 | 11/07/14 11:54 | EPA 7471B | 97,7471B | MC |
| Selenium, Total | ND | | mg/kg | 2.2 | -- | 1 | 11/06/14 18:12 | 11/07/14 15:54 | EPA 3050B | 97,6010C | MG |
| Silver, Total | ND | | mg/kg | 0.44 | -- | 1 | 11/06/14 18:12 | 11/07/14 15:54 | EPA 3050B | 97,6010C | MG |



Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1426412**Project Number:** Not Specified**Report Date:** 11/11/14**SAMPLE RESULTS**

Lab ID: L1426412-06

Date Collected: 11/04/14 11:27

Client ID: PE-30

Date Received: 11/04/14

Sample Location: WORCESTER, MA

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 86%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|------------------------------------|--------|-----------|-------|-------|-----|-----------------|----------------|----------------|-------------|-------------------|---------|
| MCP Total Metals - Westborough Lab | | | | | | | | | | | |
| Arsenic, Total | 24 | | mg/kg | 0.45 | -- | 1 | 11/06/14 18:12 | 11/07/14 15:58 | EPA 3050B | 97,6010C | MG |
| Barium, Total | 52 | | mg/kg | 0.45 | -- | 1 | 11/06/14 18:12 | 11/07/14 15:58 | EPA 3050B | 97,6010C | MG |
| Cadmium, Total | ND | | mg/kg | 0.45 | -- | 1 | 11/06/14 18:12 | 11/07/14 15:58 | EPA 3050B | 97,6010C | MG |
| Chromium, Total | 26 | | mg/kg | 0.45 | -- | 1 | 11/06/14 18:12 | 11/07/14 15:58 | EPA 3050B | 97,6010C | MG |
| Lead, Total | 8.5 | | mg/kg | 2.3 | -- | 1 | 11/06/14 18:12 | 11/07/14 15:58 | EPA 3050B | 97,6010C | MG |
| Mercury, Total | ND | | mg/kg | 0.074 | -- | 1 | 11/07/14 09:20 | 11/07/14 11:55 | EPA 7471B | 97,7471B | MC |
| Selenium, Total | ND | | mg/kg | 2.3 | -- | 1 | 11/06/14 18:12 | 11/07/14 15:58 | EPA 3050B | 97,6010C | MG |
| Silver, Total | ND | | mg/kg | 0.45 | -- | 1 | 11/06/14 18:12 | 11/07/14 15:58 | EPA 3050B | 97,6010C | MG |



Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1426412**Project Number:** Not Specified**Report Date:** 11/11/14**SAMPLE RESULTS**

Lab ID: L1426412-07

Date Collected: 11/04/14 11:28

Client ID: PE-31

Date Received: 11/04/14

Sample Location: WORCESTER, MA

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 85%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|------------------------------------|--------|-----------|-------|-------|-----|-----------------|----------------|----------------|-------------|-------------------|---------|
| MCP Total Metals - Westborough Lab | | | | | | | | | | | |
| Arsenic, Total | 13 | | mg/kg | 0.46 | -- | 1 | 11/06/14 18:12 | 11/07/14 16:02 | EPA 3050B | 97,6010C | MG |
| Barium, Total | 49 | | mg/kg | 0.46 | -- | 1 | 11/06/14 18:12 | 11/07/14 16:02 | EPA 3050B | 97,6010C | MG |
| Cadmium, Total | ND | | mg/kg | 0.46 | -- | 1 | 11/06/14 18:12 | 11/07/14 16:02 | EPA 3050B | 97,6010C | MG |
| Chromium, Total | 28 | | mg/kg | 0.46 | -- | 1 | 11/06/14 18:12 | 11/07/14 16:02 | EPA 3050B | 97,6010C | MG |
| Lead, Total | 8.8 | | mg/kg | 2.3 | -- | 1 | 11/06/14 18:12 | 11/07/14 16:02 | EPA 3050B | 97,6010C | MG |
| Mercury, Total | ND | | mg/kg | 0.078 | -- | 1 | 11/07/14 09:20 | 11/07/14 11:57 | EPA 7471B | 97,7471B | MC |
| Selenium, Total | ND | | mg/kg | 2.3 | -- | 1 | 11/06/14 18:12 | 11/07/14 16:02 | EPA 3050B | 97,6010C | MG |
| Silver, Total | ND | | mg/kg | 0.46 | -- | 1 | 11/06/14 18:12 | 11/07/14 16:02 | EPA 3050B | 97,6010C | MG |



Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1426412**Project Number:** Not Specified**Report Date:** 11/11/14**SAMPLE RESULTS**

Lab ID: L1426412-08

Date Collected: 11/04/14 11:29

Client ID: PE-32

Date Received: 11/04/14

Sample Location: WORCESTER, MA

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 86%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|-----------|--------|-----------|-------|----|-----|-----------------|---------------|---------------|-------------|-------------------|---------|
|-----------|--------|-----------|-------|----|-----|-----------------|---------------|---------------|-------------|-------------------|---------|

MCP Total Metals - Westborough Lab

| | | | | | | | | | | | |
|-----------------|-----|--|-------|-------|----|---|----------------|----------------|-----------|----------|----|
| Arsenic, Total | 18 | | mg/kg | 0.46 | -- | 1 | 11/06/14 18:12 | 11/07/14 16:06 | EPA 3050B | 97,6010C | MG |
| Barium, Total | 41 | | mg/kg | 0.46 | -- | 1 | 11/06/14 18:12 | 11/07/14 16:06 | EPA 3050B | 97,6010C | MG |
| Cadmium, Total | ND | | mg/kg | 0.46 | -- | 1 | 11/06/14 18:12 | 11/07/14 16:06 | EPA 3050B | 97,6010C | MG |
| Chromium, Total | 29 | | mg/kg | 0.46 | -- | 1 | 11/06/14 18:12 | 11/07/14 16:06 | EPA 3050B | 97,6010C | MG |
| Lead, Total | 6.2 | | mg/kg | 2.3 | -- | 1 | 11/06/14 18:12 | 11/07/14 16:06 | EPA 3050B | 97,6010C | MG |
| Mercury, Total | ND | | mg/kg | 0.073 | -- | 1 | 11/07/14 09:20 | 11/07/14 11:59 | EPA 7471B | 97,7471B | MC |
| Selenium, Total | ND | | mg/kg | 2.3 | -- | 1 | 11/06/14 18:12 | 11/07/14 16:06 | EPA 3050B | 97,6010C | MG |
| Silver, Total | ND | | mg/kg | 0.46 | -- | 1 | 11/06/14 18:12 | 11/07/14 16:06 | EPA 3050B | 97,6010C | MG |



Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1426412**Project Number:** Not Specified**Report Date:** 11/11/14**SAMPLE RESULTS****Lab ID:** L1426412-09**Date Collected:** 11/04/14 11:30**Client ID:** PE-33**Date Received:** 11/04/14**Sample Location:** WORCESTER, MA**Field Prep:** Not Specified**Matrix:** Soil**Percent Solids:** 85%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|-----------|--------|-----------|-------|----|-----|-----------------|---------------|---------------|-------------|-------------------|---------|
|-----------|--------|-----------|-------|----|-----|-----------------|---------------|---------------|-------------|-------------------|---------|

MCP Total Metals - Westborough Lab

| | | | | | | | | | | | |
|-----------------|----|--|-------|-------|----|---|----------------|----------------|-----------|----------|----|
| Arsenic, Total | 21 | | mg/kg | 0.46 | -- | 1 | 11/06/14 18:12 | 11/07/14 16:10 | EPA 3050B | 97,6010C | MG |
| Barium, Total | 50 | | mg/kg | 0.46 | -- | 1 | 11/06/14 18:12 | 11/07/14 16:10 | EPA 3050B | 97,6010C | MG |
| Cadmium, Total | ND | | mg/kg | 0.46 | -- | 1 | 11/06/14 18:12 | 11/07/14 16:10 | EPA 3050B | 97,6010C | MG |
| Chromium, Total | 28 | | mg/kg | 0.46 | -- | 1 | 11/06/14 18:12 | 11/07/14 16:10 | EPA 3050B | 97,6010C | MG |
| Lead, Total | 10 | | mg/kg | 2.3 | -- | 1 | 11/06/14 18:12 | 11/07/14 16:10 | EPA 3050B | 97,6010C | MG |
| Mercury, Total | ND | | mg/kg | 0.081 | -- | 1 | 11/07/14 09:20 | 11/07/14 16:49 | EPA 7471B | 97,7471B | MC |
| Selenium, Total | ND | | mg/kg | 2.3 | -- | 1 | 11/06/14 18:12 | 11/07/14 16:10 | EPA 3050B | 97,6010C | MG |
| Silver, Total | ND | | mg/kg | 0.46 | -- | 1 | 11/06/14 18:12 | 11/07/14 16:10 | EPA 3050B | 97,6010C | MG |



Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1426412**Project Number:** Not Specified**Report Date:** 11/11/14**SAMPLE RESULTS**

Lab ID: L1426412-10

Date Collected: 11/04/14 11:32

Client ID: PE-35

Date Received: 11/04/14

Sample Location: WORCESTER, MA

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 86%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|------------------------------------|--------|-----------|-------|-------|-----|-----------------|----------------|----------------|-------------|-------------------|---------|
| MCP Total Metals - Westborough Lab | | | | | | | | | | | |
| Arsenic, Total | 28 | | mg/kg | 0.45 | -- | 1 | 11/06/14 18:12 | 11/07/14 16:13 | EPA 3050B | 97,6010C | MG |
| Barium, Total | 50 | | mg/kg | 0.45 | -- | 1 | 11/06/14 18:12 | 11/07/14 16:13 | EPA 3050B | 97,6010C | MG |
| Cadmium, Total | ND | | mg/kg | 0.45 | -- | 1 | 11/06/14 18:12 | 11/07/14 16:13 | EPA 3050B | 97,6010C | MG |
| Chromium, Total | 33 | | mg/kg | 0.45 | -- | 1 | 11/06/14 18:12 | 11/07/14 16:13 | EPA 3050B | 97,6010C | MG |
| Lead, Total | 7.7 | | mg/kg | 2.2 | -- | 1 | 11/06/14 18:12 | 11/07/14 16:13 | EPA 3050B | 97,6010C | MG |
| Mercury, Total | ND | | mg/kg | 0.076 | -- | 1 | 11/07/14 09:20 | 11/07/14 16:51 | EPA 7471B | 97,7471B | MC |
| Selenium, Total | ND | | mg/kg | 2.2 | -- | 1 | 11/06/14 18:12 | 11/07/14 16:13 | EPA 3050B | 97,6010C | MG |
| Silver, Total | ND | | mg/kg | 0.45 | -- | 1 | 11/06/14 18:12 | 11/07/14 16:13 | EPA 3050B | 97,6010C | MG |



Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1426412**Project Number:** Not Specified**Report Date:** 11/11/14**SAMPLE RESULTS****Lab ID:** L1426412-11**Date Collected:** 11/04/14 14:20**Client ID:** PE-238**Date Received:** 11/04/14**Sample Location:** WORCESTER, MA**Field Prep:** Not Specified**Matrix:** Soil**Percent Solids:** 89%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|------------------------------------|--------|-----------|-------|-------|-----|-----------------|----------------|----------------|-------------|-------------------|---------|
| MCP Total Metals - Westborough Lab | | | | | | | | | | | |
| Arsenic, Total | 20 | | mg/kg | 0.44 | -- | 1 | 11/06/14 18:12 | 11/07/14 16:17 | EPA 3050B | 97,6010C | MG |
| Barium, Total | 52 | | mg/kg | 0.44 | -- | 1 | 11/06/14 18:12 | 11/07/14 16:17 | EPA 3050B | 97,6010C | MG |
| Cadmium, Total | ND | | mg/kg | 0.44 | -- | 1 | 11/06/14 18:12 | 11/07/14 16:17 | EPA 3050B | 97,6010C | MG |
| Chromium, Total | 20 | | mg/kg | 0.44 | -- | 1 | 11/06/14 18:12 | 11/07/14 16:17 | EPA 3050B | 97,6010C | MG |
| Lead, Total | 4.6 | | mg/kg | 2.2 | -- | 1 | 11/06/14 18:12 | 11/07/14 16:17 | EPA 3050B | 97,6010C | MG |
| Mercury, Total | ND | | mg/kg | 0.072 | -- | 1 | 11/07/14 09:20 | 11/07/14 16:53 | EPA 7471B | 97,7471B | MC |
| Selenium, Total | ND | | mg/kg | 2.2 | -- | 1 | 11/06/14 18:12 | 11/07/14 16:17 | EPA 3050B | 97,6010C | MG |
| Silver, Total | ND | | mg/kg | 0.44 | -- | 1 | 11/06/14 18:12 | 11/07/14 16:17 | EPA 3050B | 97,6010C | MG |



Project Name: HOLY CROSS FIELDHOUSE

Lab Number: L1426412

Project Number: Not Specified

Report Date: 11/11/14

Method Blank Analysis Batch Quality Control

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|---|--------|-----------|-------|------|-----|--------------------|------------------|------------------|----------------------|---------|
| MCP Total Metals - Westborough Lab for sample(s): 01-11 Batch: WG738282-1 | | | | | | | | | | |
| Arsenic, Total | ND | | mg/kg | 0.40 | -- | 1 | 11/06/14 18:12 | 11/07/14 15:31 | 97,6010C | MG |
| Barium, Total | ND | | mg/kg | 0.40 | -- | 1 | 11/06/14 18:12 | 11/07/14 15:31 | 97,6010C | MG |
| Cadmium, Total | ND | | mg/kg | 0.40 | -- | 1 | 11/06/14 18:12 | 11/07/14 15:31 | 97,6010C | MG |
| Chromium, Total | ND | | mg/kg | 0.40 | -- | 1 | 11/06/14 18:12 | 11/07/14 15:31 | 97,6010C | MG |
| Lead, Total | ND | | mg/kg | 2.0 | -- | 1 | 11/06/14 18:12 | 11/07/14 15:31 | 97,6010C | MG |
| Selenium, Total | ND | | mg/kg | 2.0 | -- | 1 | 11/06/14 18:12 | 11/07/14 15:31 | 97,6010C | MG |
| Silver, Total | ND | | mg/kg | 0.40 | -- | 1 | 11/06/14 18:12 | 11/07/14 15:31 | 97,6010C | MG |

Prep Information

Digestion Method: EPA 3050B

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|---|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| MCP Total Metals - Westborough Lab for sample(s): 01-08 Batch: WG738400-1 | | | | | | | | | | |
| Mercury, Total | ND | | mg/kg | 0.083 | -- | 1 | 11/07/14 09:20 | 11/07/14 11:07 | 97,7471B | MC |

Prep Information

Digestion Method: EPA 7471B

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|---|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| MCP Total Metals - Westborough Lab for sample(s): 09-11 Batch: WG738402-1 | | | | | | | | | | |
| Mercury, Total | ND | | mg/kg | 0.083 | -- | 1 | 11/07/14 09:20 | 11/07/14 16:43 | 97,7471B | MC |

Prep Information

Digestion Method: EPA 7471B



Lab Control Sample Analysis**Batch Quality Control****Project Name:** HOLY CROSS FIELDHOUSE**Lab Number:** L1426412**Project Number:** Not Specified**Report Date:** 11/11/14

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|--|------------------|------|-------------------|------|---------------------|-----|------|------------|
| MCP Total Metals - Westborough Lab Associated sample(s): 01-11 Batch: WG738282-2 WG738282-3 SRM Lot Number: D083-540 | | | | | | | | |
| Arsenic, Total | 98 | | 98 | | 78-122 | 0 | | 30 |
| Barium, Total | 90 | | 96 | | 82-117 | 6 | | 30 |
| Cadmium, Total | 89 | | 95 | | 82-118 | 7 | | 30 |
| Chromium, Total | 92 | | 98 | | 79-121 | 6 | | 30 |
| Lead, Total | 89 | | 92 | | 81-119 | 3 | | 30 |
| Selenium, Total | 96 | | 102 | | 78-123 | 6 | | 30 |
| Silver, Total | 91 | | 94 | | 74-125 | 3 | | 30 |
| MCP Total Metals - Westborough Lab Associated sample(s): 01-08 Batch: WG738400-2 WG738400-3 SRM Lot Number: D083-540 | | | | | | | | |
| Mercury, Total | 105 | | 107 | | 75-126 | 2 | | 30 |
| MCP Total Metals - Westborough Lab Associated sample(s): 09-11 Batch: WG738402-2 WG738402-3 SRM Lot Number: D083-540 | | | | | | | | |
| Mercury, Total | 125 | | 105 | | 75-126 | 17 | | 30 |

INORGANICS & MISCELLANEOUS

Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1426412**Project Number:** Not Specified**Report Date:** 11/11/14**SAMPLE RESULTS**

Lab ID: L1426412-01
Client ID: PE-25
Sample Location: WORCESTER, MA
Matrix: Soil

Date Collected: 11/03/14 15:08
Date Received: 11/04/14
Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Solids, Total | 90.4 | | % | 0.100 | NA | 1 | - | 11/04/14 20:08 | 30,2540G | RT |



Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1426412
Report Date: 11/11/14

SAMPLE RESULTS

Lab ID: L1426412-02
Client ID: PE-26
Sample Location: WORCESTER, MA
Matrix: Soil

Date Collected: 11/03/14 15:35
Date Received: 11/04/14
Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Solids, Total | 87.8 | | % | 0.100 | NA | 1 | - | 11/04/14 20:08 | 30,2540G | RT |



Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1426412
Report Date: 11/11/14

SAMPLE RESULTS

Lab ID: L1426412-03
Client ID: PE-27
Sample Location: WORCESTER, MA
Matrix: Soil

Date Collected: 11/03/14 15:36
Date Received: 11/04/14
Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Solids, Total | 87.0 | | % | 0.100 | NA | 1 | - | 11/04/14 20:08 | 30,2540G | RT |



Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1426412
Report Date: 11/11/14

SAMPLE RESULTS

Lab ID: L1426412-04
Client ID: PE-28
Sample Location: WORCESTER, MA
Matrix: Soil

Date Collected: 11/03/14 15:45
Date Received: 11/04/14
Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Solids, Total | 84.3 | | % | 0.100 | NA | 1 | - | 11/04/14 20:08 | 30,2540G | RT |



Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1426412
Report Date: 11/11/14

SAMPLE RESULTS

Lab ID: L1426412-05
Client ID: PE-29
Sample Location: WORCESTER, MA
Matrix: Soil

Date Collected: 11/04/14 11:26
Date Received: 11/04/14
Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Solids, Total | 88.6 | | % | 0.100 | NA | 1 | - | 11/04/14 20:08 | 30,2540G | RT |



Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1426412
Report Date: 11/11/14

SAMPLE RESULTS

Lab ID: L1426412-06
Client ID: PE-30
Sample Location: WORCESTER, MA
Matrix: Soil

Date Collected: 11/04/14 11:27
Date Received: 11/04/14
Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Solids, Total | 86.4 | | % | 0.100 | NA | 1 | - | 11/04/14 20:08 | 30,2540G | RT |



Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1426412
Report Date: 11/11/14

SAMPLE RESULTS

Lab ID: L1426412-07
Client ID: PE-31
Sample Location: WORCESTER, MA
Matrix: Soil

Date Collected: 11/04/14 11:28
Date Received: 11/04/14
Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Solids, Total | 84.8 | | % | 0.100 | NA | 1 | - | 11/04/14 20:08 | 30,2540G | RT |



Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1426412
Report Date: 11/11/14

SAMPLE RESULTS

Lab ID: L1426412-08
Client ID: PE-32
Sample Location: WORCESTER, MA
Matrix: Soil

Date Collected: 11/04/14 11:29
Date Received: 11/04/14
Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Solids, Total | 86.4 | | % | 0.100 | NA | 1 | - | 11/04/14 20:08 | 30,2540G | RT |



Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1426412
Report Date: 11/11/14

SAMPLE RESULTS

Lab ID: L1426412-09
Client ID: PE-33
Sample Location: WORCESTER, MA
Matrix: Soil

Date Collected: 11/04/14 11:30
Date Received: 11/04/14
Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Solids, Total | 85.1 | | % | 0.100 | NA | 1 | - | 11/04/14 20:08 | 30,2540G | RT |



Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1426412
Report Date: 11/11/14

SAMPLE RESULTS

Lab ID: L1426412-10
Client ID: PE-35
Sample Location: WORCESTER, MA
Matrix: Soil

Date Collected: 11/04/14 11:32
Date Received: 11/04/14
Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Solids, Total | 86.4 | | % | 0.100 | NA | 1 | - | 11/04/14 20:08 | 30,2540G | RT |



Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1426412
Report Date: 11/11/14

SAMPLE RESULTS

Lab ID: L1426412-11
Client ID: PE-238
Sample Location: WORCESTER, MA
Matrix: Soil

Date Collected: 11/04/14 14:20
Date Received: 11/04/14
Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Solids, Total | 89.2 | | % | 0.100 | NA | 1 | - | 11/04/14 20:08 | 30,2540G | RT |



Lab Duplicate Analysis
Batch Quality Control**Project Name:** HOLY CROSS FIELDHOUSE**Project Number:** Not Specified**Lab Number:** L1426412**Report Date:** 11/11/14

| Parameter | Native Sample | Duplicate Sample | Units | RPD | Qual | RPD Limits |
|--|---------------|------------------|-------|-----|------|------------|
| General Chemistry - Westborough Lab Associated sample(s): 01-11 QC Batch ID: WG737515-1 QC Sample: L1426373-01 Client ID: DUP Sample | | | | | | |
| Solids, Total | 91.1 | 91.3 | % | 0 | | 20 |

Project Name: HOLY CROSS FIELDHOUSE

Project Number: Not Specified

Lab Number: L1426412

Report Date: 11/11/14

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler

A Absent

Container Information

| Container ID | Container Type | Cooler | pH | Temp deg C | Pres | Seal | Analysis(*) |
|--------------|-------------------------|--------|-----|------------|------|--------|--|
| L1426412-01A | Amber 250ml unpreserved | A | N/A | 3.2 | Y | Absent | MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),TS(7),MCP-8082-10-3540C(365),MCP-AG-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180) |
| L1426412-02A | Amber 250ml unpreserved | A | N/A | 3.2 | Y | Absent | MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),TS(7),MCP-8082-10-3540C(365),MCP-AG-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180) |
| L1426412-03A | Amber 250ml unpreserved | A | N/A | 3.2 | Y | Absent | MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),TS(7),MCP-8082-10-3540C(365),MCP-AG-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180) |
| L1426412-04A | Amber 250ml unpreserved | A | N/A | 3.2 | Y | Absent | MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),TS(7),MCP-8082-10-3540C(365),MCP-AG-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180) |
| L1426412-05A | Amber 250ml unpreserved | A | N/A | 3.2 | Y | Absent | MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),TS(7),MCP-8082-10-3540C(365),MCP-AG-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180) |

*Values in parentheses indicate holding time in days



Project Name: HOLY CROSS FIELDHOUSE**Project Number:** Not Specified**Lab Number:** L1426412**Report Date:** 11/11/14**Container Information**

| Container ID | Container Type | Cooler | pH | Temp deg C | Pres | Seal | Analysis(*) |
|--------------|-------------------------|--------|-----|------------|------|--------|--|
| L1426412-06A | Amber 250ml unpreserved | A | N/A | 3.2 | Y | Absent | MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),TS(7),MCP-8082-10-3540C(365),MCP-AG-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180) |
| L1426412-07A | Amber 250ml unpreserved | A | N/A | 3.2 | Y | Absent | MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),TS(7),MCP-8082-10-3540C(365),MCP-AG-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180) |
| L1426412-08A | Amber 250ml unpreserved | A | N/A | 3.2 | Y | Absent | MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),TS(7),MCP-8082-10-3540C(365),MCP-AG-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180) |
| L1426412-09A | Amber 250ml unpreserved | A | N/A | 3.2 | Y | Absent | MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),TS(7),MCP-8082-10-3540C(365),MCP-AG-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180) |
| L1426412-10A | Amber 250ml unpreserved | A | N/A | 3.2 | Y | Absent | MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),TS(7),MCP-8082-10-3540C(365),MCP-AG-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180) |
| L1426412-11A | Amber 250ml unpreserved | A | N/A | 3.2 | Y | Absent | MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),TS(7),MCP-8082-10-3540C(365),MCP-AG-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180) |

*Values in parentheses indicate holding time in days



Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1426412**Project Number:** Not Specified**Report Date:** 11/11/14

GLOSSARY

Acronyms

| | |
|------|---|
| EDL | - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME). |
| EPA | - Environmental Protection Agency. |
| LCS | - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes. |
| LCSD | - Laboratory Control Sample Duplicate: Refer to LCS. |
| LFB | - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes. |
| MDL | - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. |
| MS | - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. |
| MSD | - Matrix Spike Sample Duplicate: Refer to MS. |
| NA | - Not Applicable. |
| NC | - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit. |
| NI | - Not Ignitable. |
| RL | - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable. |
| RPD | - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report. |
| SRM | - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples. |

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

Report Format: Data Usability Report



Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1426412**Project Number:** Not Specified**Report Date:** 11/11/14**Data Qualifiers**

- G** - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the reporting limit (RL) for the sample.

Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1426412
Report Date: 11/11/14

REFERENCES

- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.
- 97 EPA Test Methods (SW-846) with QC Requirements & Performance Standards for the Analysis of EPA SW-846 Methods under the Massachusetts Contingency Plan, WSC-CAM-IIA, IIB, IIIA, IIIB, IIIC, IIID, VA, VB, VC, VIA, VIB, VIIIA and VIIIB, July 2010.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

Last revised April 15, 2014

The following analytes are not included in our NELAP Scope of Accreditation:

Westborough Facility

EPA 524.2: Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.

EPA 8260C: 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide), Methyl methacrylate, Azobenzene.

EPA 8330A/B: PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT.

EPA 8270D: 1-Methylnaphthalene, Dimethylnaphthalene, 1,4-Diphenylhydrazine.

EPA 625: 4-Chloroaniline, 4-Methylphenol.

SM4500: Soil: Total Phosphorus, TKN, NO₂, NO₃.

EPA 9071: Total Petroleum Hydrocarbons, Oil & Grease.

Mansfield Facility

EPA 8270D: Biphenyl.

EPA 2540D: TSS

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water

EPA 200.8: Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, Tl; **EPA 200.7:** Ba, Be, Ca, Cd, Cr, Cu, Na; **EPA 245.1:** Mercury;

EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO₃-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**

EPA 332: Perchlorate.

Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.

Non-Potable Water

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, Tl, Zn;

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, Ti, Tl, V, Zn;

EPA 245.1, SM4500H-B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC,

SM426C, SM4500NH₃-BH, EPA 350.1: Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO₃-F,**

EPA 353.2: Nitrate-N, **SM4500NH₃-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4,**

SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.

EPA 624: Volatile Halocarbons & Aromatics,

EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF.

For a complete listing of analytes and methods, please contact your Alpha Project Manager.



WESTBORO, MA
TEL: 508-898-9220
FAX: 508-898-9193

MANSFIELD, MA
TEL: 508-822-9300
FAX: 508-822-3288

CHAIN OF CUSTODY

PAGE 1 OF 2

Date Rec'd in Lab: 01/14/14

ALPHA Job #: 11111412-52
Serial No: 11426912

Project Information

Project Name: Holy Cross Fieldhouse

Project Location: Worcester MA

Project #:

Project Manager: Richard Gang

ALPHA Quote #:

Turn-Around Time

☒ Standard ☒ RUSH (only confirmed if pre-approved!)

Date Due: 1/11/14
1 DAY TAT FOR
Marked samples

Report Information - Data Deliverables

☐ FAX ☒ EMAIL
☒ ADEX ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program MASS MCP/EPA Criteria Detect limit < 1 ppm PCBs

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO

☒ Yes ☐ No Are MCP Analytical Methods Required?
☐ Yes ☒ No Is Matrix Spike (MS) Required on this SDG? (If yes see note in Comments)
☐ Yes ☒ No Are CT RCP (Reasonable Confidence Protocols) Required?

Client Information

Client: Cooperstown Environmental

Address: 23 Main Street
Andover, MA

Phone: 888-508-8227

Fax: 978-470-4755

Email: richard@cooperstownenu.com

☐ These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

If MS is required, indicate in Sample Specific Comments which samples and what tests MS to be performed.
(Note: All CAM methods for inorganic analyses require MS every 20 soil samples)

* 3500B/3540C of SW-846 Detection limit < 1 ppm

ANALYSIS

PCBs SOXLET *
PCRA 8 Metals

SAMPLE HANDLING

Filtration
☐ Done
☒ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

Sample Specific Comments

| ALPHA Lab ID (Lab Use Only) | Sample ID | Collection | | Sample Matrix | Sampler's Initials | | | | | | | | | | | TOTAL # BOTTLES |
|--------------------------------|-----------|----------------|--------------|------------------|-----------------------|----------|----------|--|--|--|--|--|--|--|--|-----------------------|
| | | Date | Time | | | | | | | | | | | | | |
| <u>20412</u> -01 | PE-25 | <u>11/3/14</u> | <u>3:08</u> | <u>SOIL</u> | <u>AN</u> | <u>X</u> | <u>X</u> | | | | | | | | | <u>1</u> |
| -02 | PE-26 | <u>↓</u> | <u>3:35</u> | <u>↓</u> | <u>↓</u> | <u>X</u> | <u>X</u> | | | | | | | | | <u>1</u> |
| -03 | PE-27 | <u>↓</u> | <u>3:36</u> | <u>↓</u> | <u>↓</u> | <u>X</u> | <u>X</u> | | | | | | | | | <u>1</u> |
| -04 | PE-28 | <u>↓</u> | <u>3:45</u> | <u>↓</u> | <u>↓</u> | <u>X</u> | <u>X</u> | | | | | | | | | <u>1</u> |
| -05 | PE-29 | <u>11/4/14</u> | <u>11:26</u> | <u>↓</u> | <u>↓</u> | <u>X</u> | <u>X</u> | | | | | | | | | <u>1</u> |
| -06 | PE-30 | <u>↓</u> | <u>11:27</u> | <u>↓</u> | <u>↓</u> | <u>X</u> | <u>X</u> | | | | | | | | | <u>1</u> |
| -07 | PE-31 | <u>↓</u> | <u>11:28</u> | <u>↓</u> | <u>↓</u> | <u>X</u> | <u>X</u> | | | | | | | | | <u>1</u> |
| -08 | PE-32 | <u>↓</u> | <u>11:29</u> | <u>↓</u> | <u>↓</u> | <u>X</u> | <u>X</u> | | | | | | | | | <u>1</u> |
| -09 | PE-33 | <u>↓</u> | <u>11:30</u> | <u>↓</u> | <u>↓</u> | <u>X</u> | <u>X</u> | | | | | | | | | <u>1</u> |
| | PE-34 | <u>↓</u> | <u>11:31</u> | <u>↓</u> | <u>↓</u> | <u>X</u> | <u>X</u> | | | | | | | | | <u>1</u> |

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT
MA MCP or CT RCP?

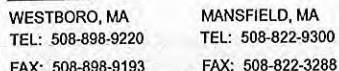
Relinquished By: Amel Nawar

Date/Time: 11/4/14 1530

Received By: Pat C...

Date/Time: 11/4/14 1530

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.



PAGE 2 OF 2

11/04/12

ALPHA Job #: 11426412

Project Name: Holy Cross Fieldhouse

Project Location: Worcester MA

Project #: _____

Project Manager: Richard Gang

ALPHA Quote #: _____

Turn-Around Time

☒ Standard ☒ RUSH (only confirmed if pre-approved!)

Date Due: 11/11/14 marked samples Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL
☒ ADEx ☐ Add'l Deliverables

Billing Information

| | |
|---|-------|
| <input checked="" type="checkbox"/> Same as Client info | PO #: |
|---|-------|

Regulatory Requirements/Report Limits

State /Fed Program **MASSMCP / EPA** Criteria **PCB < 1ppm (detect limit)**

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO

☒ Yes ☐ No Are MCP Analytical Methods Required?
☒ Yes ☐ No Is Matrix Spike (MS) Required on this SDG? (If yes see note in Comments)
☐ Yes ☒ No Are CT RCP (Reasonable Confidence Protocols) Required?

SAMPLE HANDLING

Filtration _____
☐ Done
☒ Not needed
☐ Lab to do
Preservation
☐ Lab to do
 (Please specify below)

Sample Specific Comments

Other Project Specific Requirements/Comments/Detection Limits:

If MS is required, indicate in Sample Specific Comments which samples and what tests MS to be performed.
(Note: All CAM methods for inorganic analyses require MS every 20 soil samples)

* 3500B/3540C of SW-846 detect limit <1 ppm

[illegible]

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP *or* CT RCP?

FORM NO: 01-01 (rev. 18-Jan-2010)

| | | |
|----------------|---|---|
| Container Type | G | G |
| Preservative | A | A |

Relinquished By:

Date/Time

Received By:

Date/Time

Please print clearly, legibly, and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.



ANALYTICAL REPORT

| | |
|-----------------|---|
| Lab Number: | L1426411 |
| Client: | Cooperstown Environmental LLC 23 Main Street Andover, MA 01810-0814 |
| ATTN: | Richard Gang |
| Phone: | (978) 470-4755 |
| Project Name: | HOLY CROSS FIELDHOUSE |
| Project Number: | Not Specified |
| Report Date: | 11/06/14 |

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1426411
Report Date: 11/06/14

| Alpha Sample ID | Client ID | Matrix | Sample Location | Collection Date/Time | Receive Date |
|----------------------------|------------------|---------------|----------------------------|---------------------------------|---------------------|
| L1426411-01 | PE-34 | SOIL | WORCESTER, MA | 11/04/14 11:31 | 11/04/14 |
| L1426411-02 | PE-36 | SOIL | WORCESTER, MA | 11/04/14 11:35 | 11/04/14 |
| L1426411-03 | PE-37 | SOIL | WORCESTER, MA | 11/04/14 12:37 | 11/04/14 |
| L1426411-04 | PE-38 | SOIL | WORCESTER, MA | 11/04/14 14:20 | 11/04/14 |
| L1426411-05 | PE-39 | SOIL | WORCESTER, MA | 11/04/14 14:50 | 11/04/14 |

Project Name: HOLY CROSS FIELDHOUSE

Lab Number: L1426411

Project Number: Not Specified

Report Date: 11/06/14

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

| | | |
|--|---|-----|
| An affirmative response to questions A through F is required for "Presumptive Certainty" status | | |
| A | Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times? | YES |
| B | Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed? | YES |
| C | Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances? | YES |
| D | Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?" | YES |
| E a. | VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). | N/A |
| E b. | APH and TO-15 Methods only: Was the complete analyte list reported for each method? | N/A |
| F | Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)? | YES |
| A response to questions G, H and I is required for "Presumptive Certainty" status | | |
| G | Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)? | YES |
| H | Were all QC performance standards specified in the CAM protocol(s) achieved? | NO |
| I | Were results reported for the complete analyte list specified in the selected CAM protocol(s)? | NO |
| For any questions answered "No", please refer to the case narrative section on the following page(s). | | |

Please note that sample matrix information is located in the Sample Results section of this report.



Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1426411
Report Date: 11/06/14

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1426411
Report Date: 11/06/14

Case Narrative (continued)

Report Submission

This report contains the results of the RUSH TAT analysis. The results of all other analyses will be issued under separate cover.

MCP Related Narratives

Metals

In reference to question H:

The WG737526-3 LCSD recovery, associated with L1426411-01, -02, -03, and -05, is outside the acceptance criteria for barium (120%). Re-analysis of the LCSD yielded an unacceptable recovery for barium (120%). The LCS recovery was within acceptance criteria for this analyte; therefore, no further action was taken.


The WG737892-6 serial dilution analysis, associated with L1426411-04, had a %D above the acceptance criteria for barium (50%) and chromium (50%).

In reference to question I:

All samples were analyzed for a subset of MCP elements per the Chain of Custody.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

 Michelle M. Morris

Title: Technical Director/Representative

Date: 11/06/14

ORGANICS

PCBS

Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1426411
Report Date: 11/06/14

SAMPLE RESULTS

Lab ID: L1426411-01
Client ID: PE-34
Sample Location: WORCESTER, MA
Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 11/05/14 15:45
Analyst: JT
Percent Solids: 87%

Date Collected: 11/04/14 11:31
Date Received: 11/04/14
Field Prep: Not Specified
Extraction Method: EPA 3540C
Extraction Date: 11/04/14 20:00
Cleanup Method: EPA 3665A
Cleanup Date: 11/05/14
Cleanup Method: EPA 3660B
Cleanup Date: 11/05/14

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|-------|------|-----|-----------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 37.4 | -- | 1 | A |
| Aroclor 1221 | ND | | ug/kg | 37.4 | -- | 1 | A |
| Aroclor 1232 | ND | | ug/kg | 37.4 | -- | 1 | A |
| Aroclor 1242 | ND | | ug/kg | 37.4 | -- | 1 | A |
| Aroclor 1248 | ND | | ug/kg | 37.4 | -- | 1 | A |
| Aroclor 1254 | ND | | ug/kg | 37.4 | -- | 1 | A |
| Aroclor 1260 | 53.6 | | ug/kg | 37.4 | -- | 1 | B |
| Aroclor 1262 | ND | | ug/kg | 37.4 | -- | 1 | A |
| Aroclor 1268 | ND | | ug/kg | 37.4 | -- | 1 | A |
| PCBs, Total | 53.6 | | ug/kg | 37.4 | -- | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 70 | | 30-150 | A |
| Decachlorobiphenyl | 82 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 80 | | 30-150 | B |
| Decachlorobiphenyl | 91 | | 30-150 | B |

Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1426411
Report Date: 11/06/14

SAMPLE RESULTS

Lab ID: L1426411-02
Client ID: PE-36
Sample Location: WORCESTER, MA
Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 11/05/14 15:57
Analyst: JT
Percent Solids: 85%

Date Collected: 11/04/14 11:35
Date Received: 11/04/14
Field Prep: Not Specified
Extraction Method: EPA 3540C
Extraction Date: 11/04/14 20:00
Cleanup Method: EPA 3665A
Cleanup Date: 11/05/14
Cleanup Method: EPA 3660B
Cleanup Date: 11/05/14

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|-------|------|-----|-----------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 38.0 | -- | 1 | A |
| Aroclor 1221 | ND | | ug/kg | 38.0 | -- | 1 | A |
| Aroclor 1232 | ND | | ug/kg | 38.0 | -- | 1 | A |
| Aroclor 1242 | ND | | ug/kg | 38.0 | -- | 1 | A |
| Aroclor 1248 | ND | | ug/kg | 38.0 | -- | 1 | A |
| Aroclor 1254 | ND | | ug/kg | 38.0 | -- | 1 | A |
| Aroclor 1260 | 57.4 | | ug/kg | 38.0 | -- | 1 | B |
| Aroclor 1262 | ND | | ug/kg | 38.0 | -- | 1 | A |
| Aroclor 1268 | ND | | ug/kg | 38.0 | -- | 1 | A |
| PCBs, Total | 57.4 | | ug/kg | 38.0 | -- | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 74 | | 30-150 | A |
| Decachlorobiphenyl | 77 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 91 | | 30-150 | B |
| Decachlorobiphenyl | 90 | | 30-150 | B |

Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1426411
Report Date: 11/06/14

SAMPLE RESULTS

Lab ID: L1426411-03
Client ID: PE-37
Sample Location: WORCESTER, MA
Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 11/05/14 16:10
Analyst: JT
Percent Solids: 87%

Date Collected: 11/04/14 12:37
Date Received: 11/04/14
Field Prep: Not Specified
Extraction Method: EPA 3540C
Extraction Date: 11/04/14 20:00
Cleanup Method: EPA 3665A
Cleanup Date: 11/05/14
Cleanup Method: EPA 3660B
Cleanup Date: 11/05/14

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|-------|------|-----|-----------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 37.0 | -- | 1 | A |
| Aroclor 1221 | ND | | ug/kg | 37.0 | -- | 1 | A |
| Aroclor 1232 | ND | | ug/kg | 37.0 | -- | 1 | A |
| Aroclor 1242 | ND | | ug/kg | 37.0 | -- | 1 | A |
| Aroclor 1248 | ND | | ug/kg | 37.0 | -- | 1 | A |
| Aroclor 1254 | ND | | ug/kg | 37.0 | -- | 1 | A |
| Aroclor 1260 | ND | | ug/kg | 37.0 | -- | 1 | A |
| Aroclor 1262 | ND | | ug/kg | 37.0 | -- | 1 | A |
| Aroclor 1268 | ND | | ug/kg | 37.0 | -- | 1 | A |
| PCBs, Total | ND | | ug/kg | 37.0 | -- | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 70 | | 30-150 | A |
| Decachlorobiphenyl | 71 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 81 | | 30-150 | B |
| Decachlorobiphenyl | 84 | | 30-150 | B |

Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1426411
Report Date: 11/06/14

SAMPLE RESULTS

Lab ID: L1426411-04
Client ID: PE-38
Sample Location: WORCESTER, MA
Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 11/05/14 16:22
Analyst: JT
Percent Solids: 89%

Date Collected: 11/04/14 14:20
Date Received: 11/04/14
Field Prep: Not Specified
Extraction Method: EPA 3540C
Extraction Date: 11/04/14 20:00
Cleanup Method: EPA 3665A
Cleanup Date: 11/05/14
Cleanup Method: EPA 3660B
Cleanup Date: 11/05/14

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|-------|------|-----|-----------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 36.6 | -- | 1 | A |
| Aroclor 1221 | ND | | ug/kg | 36.6 | -- | 1 | A |
| Aroclor 1232 | ND | | ug/kg | 36.6 | -- | 1 | A |
| Aroclor 1242 | ND | | ug/kg | 36.6 | -- | 1 | A |
| Aroclor 1248 | ND | | ug/kg | 36.6 | -- | 1 | A |
| Aroclor 1254 | ND | | ug/kg | 36.6 | -- | 1 | A |
| Aroclor 1260 | ND | | ug/kg | 36.6 | -- | 1 | A |
| Aroclor 1262 | ND | | ug/kg | 36.6 | -- | 1 | A |
| Aroclor 1268 | ND | | ug/kg | 36.6 | -- | 1 | A |
| PCBs, Total | ND | | ug/kg | 36.6 | -- | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 68 | | 30-150 | A |
| Decachlorobiphenyl | 72 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 84 | | 30-150 | B |
| Decachlorobiphenyl | 88 | | 30-150 | B |

Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1426411
Report Date: 11/06/14

SAMPLE RESULTS

Lab ID: L1426411-05
Client ID: PE-39
Sample Location: WORCESTER, MA
Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 11/05/14 16:35
Analyst: JT
Percent Solids: 87%

Date Collected: 11/04/14 14:50
Date Received: 11/04/14
Field Prep: Not Specified
Extraction Method: EPA 3540C
Extraction Date: 11/04/14 20:00
Cleanup Method: EPA 3665A
Cleanup Date: 11/05/14
Cleanup Method: EPA 3660B
Cleanup Date: 11/05/14

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|-------|------|-----|-----------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 37.6 | -- | 1 | A |
| Aroclor 1221 | ND | | ug/kg | 37.6 | -- | 1 | A |
| Aroclor 1232 | ND | | ug/kg | 37.6 | -- | 1 | A |
| Aroclor 1242 | ND | | ug/kg | 37.6 | -- | 1 | A |
| Aroclor 1248 | ND | | ug/kg | 37.6 | -- | 1 | A |
| Aroclor 1254 | ND | | ug/kg | 37.6 | -- | 1 | A |
| Aroclor 1260 | ND | | ug/kg | 37.6 | -- | 1 | A |
| Aroclor 1262 | ND | | ug/kg | 37.6 | -- | 1 | A |
| Aroclor 1268 | ND | | ug/kg | 37.6 | -- | 1 | A |
| PCBs, Total | ND | | ug/kg | 37.6 | -- | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 78 | | 30-150 | A |
| Decachlorobiphenyl | 80 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 83 | | 30-150 | B |
| Decachlorobiphenyl | 90 | | 30-150 | B |

Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1426411**Project Number:** Not Specified**Report Date:** 11/06/14

Method Blank Analysis Batch Quality Control

Analytical Method: 97,8082A
 Analytical Date: 11/05/14 16:03
 Analyst: JT

Extraction Method: EPA 3540C
 Extraction Date: 11/04/14 20:00
 Cleanup Method: EPA 3665A
 Cleanup Date: 11/05/14
 Cleanup Method: EPA 3660B
 Cleanup Date: 11/05/14

| Parameter | Result | Qualifier | Units | RL | MDL | Column |
|--|--------|-----------|-------|------|-----|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab for sample(s): 01-05 Batch: WG737510-1 | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 37.9 | -- | A |
| Aroclor 1221 | ND | | ug/kg | 37.9 | -- | A |
| Aroclor 1232 | ND | | ug/kg | 37.9 | -- | A |
| Aroclor 1242 | ND | | ug/kg | 37.9 | -- | A |
| Aroclor 1248 | ND | | ug/kg | 37.9 | -- | A |
| Aroclor 1254 | ND | | ug/kg | 37.9 | -- | A |
| Aroclor 1260 | ND | | ug/kg | 37.9 | -- | A |
| Aroclor 1262 | ND | | ug/kg | 37.9 | -- | A |
| Aroclor 1268 | ND | | ug/kg | 37.9 | -- | A |
| PCBs, Total | ND | | ug/kg | 37.9 | -- | A |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|-----------|-----------|------------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 60 | | 30-150 | A |
| Decachlorobiphenyl | 44 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 68 | | 30-150 | B |
| Decachlorobiphenyl | 49 | | 30-150 | B |

Matrix Spike Analysis

Batch Quality Control

Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1426411**Project Number:** Not Specified**Report Date:** 11/06/14

| <i>Parameter</i> | <i>Native Sample</i> | <i>MS Added</i> | <i>MS Found</i> | <i>MS %Recovery</i> | <i>Qual</i> | <i>MSD Found</i> | <i>MSD %Recovery</i> | <i>Qual</i> | <i>Recovery Limits</i> | <i>RPD</i> | <i>Qual</i> | <i>RPD Limits</i> | <i>Column</i> |
|--|----------------------|-----------------|-----------------|---------------------|-------------|------------------|----------------------|-------------|------------------------|------------|-------------|-------------------|---------------|
| MCP Polychlorinated Biphenyls - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG737510-4 QC Sample: L1426411-04 Client ID: PE-38 | | | | | | | | | | | | | |
| Aroclor 1016 | ND | 225 | 190 | 84 | | - | - | | 40-140 | - | | 30 | A |
| Aroclor 1260 | ND | 225 | 192 | 85 | | - | - | | 40-140 | - | | 30 | A |

| <i>Surrogate</i> | <i>MS % Recovery</i> | <i>Qualifier</i> | <i>MSD % Recovery</i> | <i>Qualifier</i> | <i>Acceptance Criteria</i> | <i>Column</i> |
|------------------------------|----------------------|------------------|-----------------------|------------------|----------------------------|---------------|
| 2,4,5,6-Tetrachloro-m-xylene | 74 | | | | 30-150 | A |
| Decachlorobiphenyl | 72 | | | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 74 | | | | 30-150 | B |
| Decachlorobiphenyl | 71 | | | | 30-150 | B |

Lab Control Sample Analysis**Batch Quality Control****Project Name:** HOLY CROSS FIELDHOUSE**Project Number:** Not Specified**Lab Number:** L1426411**Report Date:** 11/06/14

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits | Column |
|--|--------------------------|-------------|---------------------------|-------------|-----------------------------|------------|-------------|-----------------------|---------------|
| MCP Polychlorinated Biphenyls - Westborough Lab Associated sample(s): 01-05 Batch: WG737510-2 WG737510-3 | | | | | | | | | |
| Aroclor 1016 | 88 | | 96 | | 40-140 | 9 | | 30 | A |
| Aroclor 1260 | 56 | | 63 | | 40-140 | 12 | | 30 | A |

| Surrogate | LCS %Recovery | Qual | LCSD %Recovery | Qual | Acceptance Criteria | Column |
|------------------------------|--------------------------|-------------|---------------------------|-------------|--------------------------------|---------------|
| 2,4,5,6-Tetrachloro-m-xylene | 86 | | 88 | | 30-150 | A |
| Decachlorobiphenyl | 57 | | 59 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 85 | | 88 | | 30-150 | B |
| Decachlorobiphenyl | 56 | | 60 | | 30-150 | B |

METALS

Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1426411**Project Number:** Not Specified**Report Date:** 11/06/14**SAMPLE RESULTS****Lab ID:** L1426411-01**Date Collected:** 11/04/14 11:31**Client ID:** PE-34**Date Received:** 11/04/14**Sample Location:** WORCESTER, MA**Field Prep:** Not Specified**Matrix:** Soil**Percent Solids:** 87%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|------------------------------------|--------|-----------|-------|-------|-----|-----------------|----------------|----------------|-------------|-------------------|---------|
| MCP Total Metals - Westborough Lab | | | | | | | | | | | |
| Arsenic, Total | 26 | | mg/kg | 0.45 | -- | 1 | 11/04/14 21:40 | 11/05/14 13:23 | EPA 3050B | 97,6010C | JH |
| Barium, Total | 66 | | mg/kg | 0.45 | -- | 1 | 11/04/14 21:40 | 11/05/14 13:23 | EPA 3050B | 97,6010C | JH |
| Cadmium, Total | ND | | mg/kg | 0.45 | -- | 1 | 11/04/14 21:40 | 11/05/14 13:23 | EPA 3050B | 97,6010C | JH |
| Chromium, Total | 31 | | mg/kg | 0.45 | -- | 1 | 11/04/14 21:40 | 11/05/14 13:23 | EPA 3050B | 97,6010C | JH |
| Lead, Total | 6.9 | | mg/kg | 2.2 | -- | 1 | 11/04/14 21:40 | 11/05/14 13:23 | EPA 3050B | 97,6010C | JH |
| Mercury, Total | ND | | mg/kg | 0.074 | -- | 1 | 11/05/14 08:55 | 11/05/14 11:07 | EPA 7471B | 97,7471B | MC |
| Selenium, Total | ND | | mg/kg | 2.2 | -- | 1 | 11/04/14 21:40 | 11/05/14 13:23 | EPA 3050B | 97,6010C | JH |
| Silver, Total | ND | | mg/kg | 0.45 | -- | 1 | 11/04/14 21:40 | 11/05/14 13:23 | EPA 3050B | 97,6010C | JH |



Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1426411**Project Number:** Not Specified**Report Date:** 11/06/14**SAMPLE RESULTS**

Lab ID: L1426411-02

Date Collected: 11/04/14 11:35

Client ID: PE-36

Date Received: 11/04/14

Sample Location: WORCESTER, MA

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 85%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|------------------------------------|--------|-----------|-------|-------|-----|-----------------|----------------|----------------|-------------|-------------------|---------|
| MCP Total Metals - Westborough Lab | | | | | | | | | | | |
| Arsenic, Total | 22 | | mg/kg | 0.45 | -- | 1 | 11/04/14 21:40 | 11/05/14 13:27 | EPA 3050B | 97,6010C | JH |
| Barium, Total | 55 | | mg/kg | 0.45 | -- | 1 | 11/04/14 21:40 | 11/05/14 13:27 | EPA 3050B | 97,6010C | JH |
| Cadmium, Total | ND | | mg/kg | 0.45 | -- | 1 | 11/04/14 21:40 | 11/05/14 13:27 | EPA 3050B | 97,6010C | JH |
| Chromium, Total | 26 | | mg/kg | 0.45 | -- | 1 | 11/04/14 21:40 | 11/05/14 13:27 | EPA 3050B | 97,6010C | JH |
| Lead, Total | 11 | | mg/kg | 2.2 | -- | 1 | 11/04/14 21:40 | 11/05/14 13:27 | EPA 3050B | 97,6010C | JH |
| Mercury, Total | ND | | mg/kg | 0.084 | -- | 1 | 11/05/14 08:55 | 11/05/14 11:09 | EPA 7471B | 97,7471B | MC |
| Selenium, Total | ND | | mg/kg | 2.2 | -- | 1 | 11/04/14 21:40 | 11/05/14 13:27 | EPA 3050B | 97,6010C | JH |
| Silver, Total | ND | | mg/kg | 0.45 | -- | 1 | 11/04/14 21:40 | 11/05/14 13:27 | EPA 3050B | 97,6010C | JH |



Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1426411**Project Number:** Not Specified**Report Date:** 11/06/14**SAMPLE RESULTS****Lab ID:** L1426411-03**Date Collected:** 11/04/14 12:37**Client ID:** PE-37**Date Received:** 11/04/14**Sample Location:** WORCESTER, MA**Field Prep:** Not Specified**Matrix:** Soil**Percent Solids:** 87%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|------------------------------------|--------|-----------|-------|-------|-----|-----------------|----------------|----------------|-------------|-------------------|---------|
| MCP Total Metals - Westborough Lab | | | | | | | | | | | |
| Arsenic, Total | 21 | | mg/kg | 0.45 | -- | 1 | 11/04/14 21:40 | 11/05/14 13:31 | EPA 3050B | 97,6010C | JH |
| Barium, Total | 48 | | mg/kg | 0.45 | -- | 1 | 11/04/14 21:40 | 11/05/14 13:31 | EPA 3050B | 97,6010C | JH |
| Cadmium, Total | ND | | mg/kg | 0.45 | -- | 1 | 11/04/14 21:40 | 11/05/14 13:31 | EPA 3050B | 97,6010C | JH |
| Chromium, Total | 23 | | mg/kg | 0.45 | -- | 1 | 11/04/14 21:40 | 11/05/14 13:31 | EPA 3050B | 97,6010C | JH |
| Lead, Total | 5.8 | | mg/kg | 2.2 | -- | 1 | 11/04/14 21:40 | 11/05/14 13:31 | EPA 3050B | 97,6010C | JH |
| Mercury, Total | ND | | mg/kg | 0.083 | -- | 1 | 11/05/14 08:55 | 11/05/14 11:11 | EPA 7471B | 97,7471B | MC |
| Selenium, Total | ND | | mg/kg | 2.2 | -- | 1 | 11/04/14 21:40 | 11/05/14 13:31 | EPA 3050B | 97,6010C | JH |
| Silver, Total | ND | | mg/kg | 0.45 | -- | 1 | 11/04/14 21:40 | 11/05/14 13:31 | EPA 3050B | 97,6010C | JH |



Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1426411**Project Number:** Not Specified**Report Date:** 11/06/14**SAMPLE RESULTS**

Lab ID: L1426411-04

Date Collected: 11/04/14 14:20

Client ID: PE-38

Date Received: 11/04/14

Sample Location: WORCESTER, MA

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 89%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|------------------------------------|--------|-----------|-------|-------|-----|-----------------|----------------|----------------|-------------|-------------------|---------|
| MCP Total Metals - Westborough Lab | | | | | | | | | | | |
| Arsenic, Total | 20 | | mg/kg | 0.43 | -- | 1 | 11/05/14 19:08 | 11/05/14 21:34 | EPA 3050B | 97,6010C | JH |
| Barium, Total | 60 | | mg/kg | 0.43 | -- | 1 | 11/05/14 19:08 | 11/05/14 21:34 | EPA 3050B | 97,6010C | JH |
| Cadmium, Total | ND | | mg/kg | 0.43 | -- | 1 | 11/05/14 19:08 | 11/05/14 21:34 | EPA 3050B | 97,6010C | JH |
| Chromium, Total | 24 | | mg/kg | 0.43 | -- | 1 | 11/05/14 19:08 | 11/05/14 21:34 | EPA 3050B | 97,6010C | JH |
| Lead, Total | 5.9 | | mg/kg | 2.2 | -- | 1 | 11/05/14 19:08 | 11/05/14 21:34 | EPA 3050B | 97,6010C | JH |
| Mercury, Total | ND | | mg/kg | 0.081 | -- | 1 | 11/06/14 15:12 | 11/06/14 16:45 | EPA 7471B | 97,7471B | MC |
| Selenium, Total | ND | | mg/kg | 2.2 | -- | 1 | 11/05/14 19:08 | 11/05/14 21:34 | EPA 3050B | 97,6010C | JH |
| Silver, Total | ND | | mg/kg | 0.43 | -- | 1 | 11/05/14 19:08 | 11/05/14 21:34 | EPA 3050B | 97,6010C | JH |



Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1426411**Project Number:** Not Specified**Report Date:** 11/06/14**SAMPLE RESULTS**

Lab ID: L1426411-05

Date Collected: 11/04/14 14:50

Client ID: PE-39

Date Received: 11/04/14

Sample Location: WORCESTER, MA

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 87%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|------------------------------------|--------|-----------|-------|-------|-----|-----------------|----------------|----------------|-------------|-------------------|---------|
| MCP Total Metals - Westborough Lab | | | | | | | | | | | |
| Arsenic, Total | 25 | | mg/kg | 0.46 | -- | 1 | 11/04/14 21:40 | 11/05/14 13:38 | EPA 3050B | 97,6010C | JH |
| Barium, Total | 66 | | mg/kg | 0.46 | -- | 1 | 11/04/14 21:40 | 11/05/14 13:38 | EPA 3050B | 97,6010C | JH |
| Cadmium, Total | ND | | mg/kg | 0.46 | -- | 1 | 11/04/14 21:40 | 11/05/14 13:38 | EPA 3050B | 97,6010C | JH |
| Chromium, Total | 31 | | mg/kg | 0.46 | -- | 1 | 11/04/14 21:40 | 11/05/14 13:38 | EPA 3050B | 97,6010C | JH |
| Lead, Total | 7.4 | | mg/kg | 2.3 | -- | 1 | 11/04/14 21:40 | 11/05/14 13:38 | EPA 3050B | 97,6010C | JH |
| Mercury, Total | ND | | mg/kg | 0.075 | -- | 1 | 11/05/14 08:55 | 11/05/14 11:58 | EPA 7471B | 97,7471B | MC |
| Selenium, Total | ND | | mg/kg | 2.3 | -- | 1 | 11/04/14 21:40 | 11/05/14 13:38 | EPA 3050B | 97,6010C | JH |
| Silver, Total | ND | | mg/kg | 0.46 | -- | 1 | 11/04/14 21:40 | 11/05/14 13:38 | EPA 3050B | 97,6010C | JH |



Project Name: HOLY CROSS FIELDHOUSE

Lab Number: L1426411

Project Number: Not Specified

Report Date: 11/06/14

Method Blank Analysis Batch Quality Control

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|--|--------|-----------|-------|------|-----|--------------------|------------------|------------------|----------------------|---------|
| MCP Total Metals - Westborough Lab for sample(s): 01-03,05 Batch: WG737526-1 | | | | | | | | | | |
| Arsenic, Total | ND | | mg/kg | 0.40 | -- | 1 | 11/04/14 21:40 | 11/05/14 12:53 | 97,6010C | JH |
| Barium, Total | ND | | mg/kg | 0.40 | -- | 1 | 11/04/14 21:40 | 11/05/14 12:53 | 97,6010C | JH |
| Cadmium, Total | ND | | mg/kg | 0.40 | -- | 1 | 11/04/14 21:40 | 11/05/14 12:53 | 97,6010C | JH |
| Chromium, Total | ND | | mg/kg | 0.40 | -- | 1 | 11/04/14 21:40 | 11/05/14 12:53 | 97,6010C | JH |
| Lead, Total | ND | | mg/kg | 2.0 | -- | 1 | 11/04/14 21:40 | 11/05/14 12:53 | 97,6010C | JH |
| Selenium, Total | ND | | mg/kg | 2.0 | -- | 1 | 11/04/14 21:40 | 11/05/14 12:53 | 97,6010C | JH |
| Silver, Total | ND | | mg/kg | 0.40 | -- | 1 | 11/04/14 21:40 | 11/05/14 12:53 | 97,6010C | JH |

Prep Information

Digestion Method: EPA 3050B

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|--|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| MCP Total Metals - Westborough Lab for sample(s): 01-03,05 Batch: WG737591-1 | | | | | | | | | | |
| Mercury, Total | ND | | mg/kg | 0.083 | -- | 1 | 11/05/14 08:55 | 11/05/14 10:54 | 97,7471B | MC |

Prep Information

Digestion Method: EPA 7471B

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|--|--------|-----------|-------|------|-----|--------------------|------------------|------------------|----------------------|---------|
| MCP Total Metals - Westborough Lab for sample(s): 04 Batch: WG737892-1 | | | | | | | | | | |
| Arsenic, Total | ND | | mg/kg | 0.40 | -- | 1 | 11/05/14 19:08 | 11/05/14 21:23 | 97,6010C | JH |
| Barium, Total | ND | | mg/kg | 0.40 | -- | 1 | 11/05/14 19:08 | 11/05/14 21:23 | 97,6010C | JH |
| Cadmium, Total | ND | | mg/kg | 0.40 | -- | 1 | 11/05/14 19:08 | 11/05/14 21:23 | 97,6010C | JH |
| Chromium, Total | ND | | mg/kg | 0.40 | -- | 1 | 11/05/14 19:08 | 11/05/14 21:23 | 97,6010C | JH |
| Lead, Total | ND | | mg/kg | 2.0 | -- | 1 | 11/05/14 19:08 | 11/05/14 21:23 | 97,6010C | JH |
| Selenium, Total | ND | | mg/kg | 2.0 | -- | 1 | 11/05/14 19:08 | 11/05/14 21:23 | 97,6010C | JH |
| Silver, Total | ND | | mg/kg | 0.40 | -- | 1 | 11/05/14 19:08 | 11/05/14 21:23 | 97,6010C | JH |



Project Name: HOLY CROSS FIELDHOUSE

Lab Number: L1426411

Project Number: Not Specified

Report Date: 11/06/14

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 3050B

| Parameter | Result Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|--|------------------|-------|-------|-----|-----------------|----------------|----------------|-------------------|---------|
| MCP Total Metals - Westborough Lab for sample(s): 04 Batch: WG738224-1 | | | | | | | | | |
| Mercury, Total | ND | mg/kg | 0.083 | -- | 1 | 11/06/14 15:12 | 11/06/14 16:39 | 97,7471B | MC |

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis

Batch Quality Control

Project Name: HOLY CROSS FIELDHOUSE

Project Number: Not Specified

Lab Number: L1426411

Report Date: 11/06/14

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|------------------|------|-------------------|------|---------------------|-----|------|------------|
| MCP Total Metals - Westborough Lab Associated sample(s): 01-03,05 Batch: WG737526-2 WG737526-3 SRM Lot Number: D083-540 | | | | | | | | |
| Arsenic, Total | 106 | | 115 | | 78-122 | 8 | | 30 |
| Barium, Total | 102 | | 120 | Q | 82-117 | 16 | | 30 |
| Cadmium, Total | 104 | | 104 | | 82-118 | 0 | | 30 |
| Chromium, Total | 108 | | 108 | | 79-121 | 0 | | 30 |
| Lead, Total | 100 | | 103 | | 81-119 | 3 | | 30 |
| Selenium, Total | 109 | | 115 | | 78-123 | 5 | | 30 |
| Silver, Total | 108 | | 108 | | 74-125 | 0 | | 30 |
| MCP Total Metals - Westborough Lab Associated sample(s): 01-03,05 Batch: WG737591-2 WG737591-3 SRM Lot Number: D083-540 | | | | | | | | |
| Mercury, Total | 111 | | 102 | | 75-126 | 8 | | 30 |
| MCP Total Metals - Westborough Lab Associated sample(s): 04 Batch: WG737892-2 WG737892-3 SRM Lot Number: D083-540 | | | | | | | | |
| Arsenic, Total | 98 | | 98 | | 78-122 | 0 | | 30 |
| Barium, Total | 90 | | 90 | | 82-117 | 0 | | 30 |
| Cadmium, Total | 91 | | 91 | | 82-118 | 0 | | 30 |
| Chromium, Total | 94 | | 94 | | 79-121 | 0 | | 30 |
| Lead, Total | 89 | | 89 | | 81-119 | 0 | | 30 |
| Selenium, Total | 96 | | 96 | | 78-123 | 0 | | 30 |
| Silver, Total | 99 | | 96 | | 74-125 | 3 | | 30 |

Lab Control Sample Analysis**Batch Quality Control****Project Name:** HOLY CROSS FIELDHOUSE**Project Number:** Not Specified**Lab Number:** L1426411**Report Date:** 11/06/14

| Parameter | LCS %Recovery | LCSD %Recovery | %Recovery Limits | RPD | RPD Limits |
|---|------------------|-------------------|---------------------|-----|------------|
| MCP Total Metals - Westborough Lab Associated sample(s): 04 Batch: WG738224-2 WG738224-3 SRM Lot Number: D083-540 | | | | | |
| Mercury, Total | 110 | 115 | 75-126 | 4 | 30 |

Matrix Spike Analysis

Batch Quality Control

Project Name: HOLY CROSS FIELDHOUSE

Lab Number: L1426411

Project Number: Not Specified

Report Date: 11/06/14

| Parameter | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery | Qual | Recovery Limits | RPD | Qual | RPD Limits |
|---|---------------|----------|----------|--------------|------|-----------|---------------|------|-----------------|-----|------|------------|
| MCP Total Metals - Westborough Lab Associated sample(s): 04 QC Batch ID: WG737892-4 QC Sample: L1426411-04 Client ID: PE-38 | | | | | | | | | | | | |
| Arsenic, Total | 20 | 10.5 | 28 | 76 | | - | - | | 75-125 | - | | 35 |
| Barium, Total | 60 | 175 | 210 | 86 | | - | - | | 75-125 | - | | 35 |
| Cadmium, Total | ND | 4.47 | 3.4 | 76 | | - | - | | 75-125 | - | | 35 |
| Chromium, Total | 24 | 17.5 | 39 | 86 | | - | - | | 75-125 | - | | 35 |
| Lead, Total | 5.9 | 44.7 | 41 | 78 | | - | - | | 75-125 | - | | 35 |
| Selenium, Total | ND | 10.5 | 9.3 | 88 | | - | - | | 75-125 | - | | 35 |
| Silver, Total | ND | 26.3 | 24 | 91 | | - | - | | 75-125 | - | | 35 |
| MCP Total Metals - Westborough Lab Associated sample(s): 04 QC Batch ID: WG738224-4 QC Sample: L1426411-04 Client ID: PE-38 | | | | | | | | | | | | |
| Mercury, Total | ND | 0.152 | 0.177 | 117 | | - | - | | 75-125 | - | | 35 |

Project Name: HOLY CROSS FIELDHOUSE

Project Number: Not Specified

**Lab Serial Dilution
Analysis**
Batch Quality Control

Lab Number: L1426411

Report Date: 11/06/14

| Parameter | Native Sample | Serial Dilution | Units | % D | Qual | RPD Limits |
|---|---------------|-----------------|-------|-----|------|------------|
| MCP Total Metals - Westborough Lab Associated sample(s): 04 QC Batch ID: WG737892-6 QC Sample: L1426411-04 Client ID: PE-38 | | | | | | |
| Barium, Total | 60 | 90 | mg/kg | 50 | Q | 10 |
| Chromium, Total | 24 | 36 | mg/kg | 50 | Q | 10 |

INORGANICS & MISCELLANEOUS

Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1426411
Report Date: 11/06/14

SAMPLE RESULTS

Lab ID: L1426411-01
Client ID: PE-34
Sample Location: WORCESTER, MA
Matrix: Soil

Date Collected: 11/04/14 11:31
Date Received: 11/04/14
Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Solids, Total | 87.1 | | % | 0.100 | NA | 1 | - | 11/05/14 00:57 | 30,2540G | RT |



Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1426411
Report Date: 11/06/14

SAMPLE RESULTS

Lab ID: L1426411-02
Client ID: PE-36
Sample Location: WORCESTER, MA
Matrix: Soil

Date Collected: 11/04/14 11:35
Date Received: 11/04/14
Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Solids, Total | 85.4 | | % | 0.100 | NA | 1 | - | 11/05/14 00:57 | 30,2540G | RT |



Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1426411
Report Date: 11/06/14

SAMPLE RESULTS

Lab ID: L1426411-03
Client ID: PE-37
Sample Location: WORCESTER, MA
Matrix: Soil

Date Collected: 11/04/14 12:37
Date Received: 11/04/14
Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Solids, Total | 87.1 | | % | 0.100 | NA | 1 | - | 11/05/14 00:57 | 30,2540G | RT |



Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1426411
Report Date: 11/06/14

SAMPLE RESULTS

Lab ID: L1426411-04
Client ID: PE-38
Sample Location: WORCESTER, MA
Matrix: Soil

Date Collected: 11/04/14 14:20
Date Received: 11/04/14
Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Solids, Total | 89.1 | | % | 0.100 | NA | 1 | - | 11/05/14 00:57 | 30,2540G | RT |



Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1426411
Report Date: 11/06/14

SAMPLE RESULTS

Lab ID: L1426411-05
Client ID: PE-39
Sample Location: WORCESTER, MA
Matrix: Soil

Date Collected: 11/04/14 14:50
Date Received: 11/04/14
Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Solids, Total | 87.2 | | % | 0.100 | NA | 1 | - | 11/05/14 00:57 | 30,2540G | RT |



Lab Duplicate Analysis
Batch Quality Control**Project Name:** HOLY CROSS FIELDHOUSE**Project Number:** Not Specified**Lab Number:** L1426411**Report Date:** 11/06/14

| Parameter | Native Sample | Duplicate Sample | Units | RPD | Qual | RPD Limits |
|---|---------------|------------------|-------|-----|------|------------|
| General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG737566-1 QC Sample: L1426411-01 Client ID: PE-34 | | | | | | |
| Solids, Total | 87.1 | 87.5 | % | 0 | | 20 |

Project Name: HOLY CROSS FIELDHOUSE

Project Number: Not Specified

Lab Number: L1426411

Report Date: 11/06/14

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler

A Absent

Container Information

| Container ID | Container Type | Cooler | pH | Temp deg C | Pres | Seal | Analysis(*) |
|--------------|-------------------------|--------|-----|------------|------|--------|---|
| L1426411-01A | Amber 250ml unpreserved | A | N/A | 3.2 | Y | Absent | MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),TS(7),MCP-8082-10-3540C(365),MCP-AG-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180) |
| L1426411-02A | Amber 250ml unpreserved | A | N/A | 3.2 | Y | Absent | MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),TS(7),MCP-8082-10-3540C(365),MCP-AG-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180) |
| L1426411-03A | Amber 250ml unpreserved | A | N/A | 3.2 | Y | Absent | MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),TS(7),MCP-8082-10-3540C(365),MCP-AG-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180) |
| L1426411-04A | Amber 250ml unpreserved | A | N/A | 3.2 | Y | Absent | MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MS(),TS(7),MCP-8082-10-3540C(365),MCP-AG-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180) |
| L1426411-05A | Amber 250ml unpreserved | A | N/A | 3.2 | Y | Absent | MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),TS(7),MCP-8082-10-3540C(365),MCP-AG-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180) |

*Values in parentheses indicate holding time in days



Project Name: HOLY CROSS FIELDHOUSE**Project Number:** Not Specified**Lab Number:** L1426411**Report Date:** 11/06/14**Container Information**

| Container ID | Container Type | Cooler | pH | Temp deg C | Pres | Seal | Analysis(*) |
|--------------|----------------|--------|----|---------------|------|------|-------------|
|--------------|----------------|--------|----|---------------|------|------|-------------|

Container Comments

L1426411-04A

*Values in parentheses indicate holding time in days



Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1426411**Project Number:** Not Specified**Report Date:** 11/06/14

GLOSSARY

Acronyms

| | |
|------|---|
| EDL | - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME). |
| EPA | - Environmental Protection Agency. |
| LCS | - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes. |
| LCSD | - Laboratory Control Sample Duplicate: Refer to LCS. |
| LFB | - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes. |
| MDL | - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. |
| MS | - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. |
| MSD | - Matrix Spike Sample Duplicate: Refer to MS. |
| NA | - Not Applicable. |
| NC | - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit. |
| NI | - Not Ignitable. |
| RL | - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable. |
| RPD | - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report. |
| SRM | - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples. |

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

Report Format: Data Usability Report



Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1426411**Project Number:** Not Specified**Report Date:** 11/06/14**Data Qualifiers**

- G** - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the reporting limit (RL) for the sample.

Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1426411
Report Date: 11/06/14

REFERENCES

- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.
- 97 EPA Test Methods (SW-846) with QC Requirements & Performance Standards for the Analysis of EPA SW-846 Methods under the Massachusetts Contingency Plan, WSC-CAM-IIA, IIB, IIIA, IIIB, IIIC, IIID, VA, VB, VC, VIA, VIB, VIIIA and VIIIB, July 2010.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

Last revised April 15, 2014

The following analytes are not included in our NELAP Scope of Accreditation:

Westborough Facility

EPA 524.2: Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.

EPA 8260C: 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide), Methyl methacrylate, Azobenzene.

EPA 8330A/B: PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT.

EPA 8270D: 1-Methylnaphthalene, Dimethylnaphthalene, 1,4-Diphenylhydrazine.

EPA 625: 4-Chloroaniline, 4-Methylphenol.

SM4500: Soil: Total Phosphorus, TKN, NO₂, NO₃.

EPA 9071: Total Petroleum Hydrocarbons, Oil & Grease.

Mansfield Facility

EPA 8270D: Biphenyl.

EPA 2540D: TSS

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water

EPA 200.8: Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, Tl; **EPA 200.7:** Ba, Be, Ca, Cd, Cr, Cu, Na; **EPA 245.1:** Mercury;

EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO₃-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**

EPA 332: Perchlorate.

Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.

Non-Potable Water

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, Tl, Zn;

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, Ti, Tl, V, Zn;

EPA 245.1, SM4500H-B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC,

SM426C, SM4500NH₃-BH, EPA 350.1: Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO₃-F,**

EPA 353.2: Nitrate-N, **SM4500NH₃-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4,**

SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.

EPA 624: Volatile Halocarbons & Aromatics,

EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF.

For a complete listing of analytes and methods, please contact your Alpha Project Manager.



CHAIN OF CUSTODY

PAGE 1 OF 2

WESTBORO, MA
TEL: 508-898-9220
FAX: 508-898-9193

MANSFIELD, MA
TEL: 508-822-9300
FAX: 508-822-3288

Project Information

Project Name: Holy Cross FieldhouseProject Location: Worcester MA

Project #: _____

Project Manager: Richard Gang

ALPHA Quote #: _____

Turn-Around Time

☒ Standard ☒ RUSH (only confirmed if pre-approved!)

 Date Due: 11/5/14 1 DAY TAT FOR
Marked samples
Date Rec'd in Lab: 10/04/14

Report Information - Data Deliverables

☐ FAX☒ EMAIL☒ ADEX☐ Add'l DeliverablesALPHA Job #: 11426411

Billing Information

☒ Same as Client info

PO #: _____

Client Information

Client: Cooperstown Environmental
 Address: 23 Main Street
Andover, MA
Phone: 978-1508-1827Fax: 978-470-4755Email: richard@cooperstownenv.com☐ These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

 If MS is required, indicate in Sample Specific Comments which samples and what tests MS to be performed.
 (Note: All CAM methods for inorganic analyses require MS every 20 soil samples)

* 3500B/3540C of SW-846 Detection limit < 1 ppm

Regulatory Requirements/Report Limits

State /Fed Program MASS MCP/EPA Criteria Detect limit < 1 ppm PCBs

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO

☒ Yes ☐ No

Are MCP Analytical Methods Required?

☐ Yes ☒ No

Is Matrix Spike (MS) Required on this SDG? (If yes see note in Comments)

☐ Yes ☒ No

Are CT RCP (Reasonable Confidence Protocols) Required?

ANALYSIS

PCBs SOXHELT
PCRA 8 METALS

SAMPLE HANDLING

Filtration _____

☐ Done☒ Not needed☐ Lab to do

Preservation

☐ Lab to do

(Please specify below)

Sample Specific Comments

TOTAL # BOTTLES

| ALPHA Lab ID (Lab Use Only) | Sample ID | Collection | | Sample Matrix | Sampler's Initials | | | | | | | | | | | Sample Specific Comments | |
|--------------------------------|-----------|----------------|--------------|---------------|--------------------|---|---|--|--|--|--|--|--|--|--|------------------------------|---|
| | | Date | Time | | | | | | | | | | | | | | |
| <u>026411</u> | PE-25 | <u>11/3/14</u> | <u>3:08</u> | <u>SOIL</u> | <u>AN</u> | X | X | | | | | | | | | | 1 |
| | PE-26 | | <u>3:35</u> | | | X | X | | | | | | | | | | 1 |
| | PE-27 | | <u>3:36</u> | | | X | X | | | | | | | | | | 1 |
| | PE-28 | | <u>3:45</u> | | | X | X | | | | | | | | | | 1 |
| | PE-29 | <u>11/4/14</u> | <u>11:26</u> | | | X | X | | | | | | | | | | 1 |
| | PE-30 | | <u>11:27</u> | | | X | X | | | | | | | | | | 1 |
| | PE-31 | | <u>11:28</u> | | | X | X | | | | | | | | | | 1 |
| | PE-32 | | <u>11:29</u> | | | X | X | | | | | | | | | | 1 |
| | PE-33 | | <u>11:30</u> | | | X | X | | | | | | | | | | 1 |
| <u>-01</u> | PE-34 | | <u>11:31</u> | | | X | X | | | | | | | | | <u>1 DAY TURNAROUND TIME</u> | 1 |

PLEASE ANSWER QUESTIONS ABOVE!

 IS YOUR PROJECT
MA MCP or CT RCP?

FORM NO: 01-01 (rev. 18-Jan-2010)

Container Type G GPreservative A ARelinquished By: Andrzej NawrockiDate/Time: 11/4/14 1530Received By: Patricia A. L.Date/Time: 11/4/14 1530

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.



ANALYTICAL REPORT

| | |
|-----------------|---|
| Lab Number: | L1426293 |
| Client: | Cooperstown Environmental LLC 23 Main Street Andover, MA 01810-0814 |
| ATTN: | Richard Gang |
| Phone: | (978) 470-4755 |
| Project Name: | HOLY CROSS FIELDHOUSE |
| Project Number: | Not Specified |
| Report Date: | 11/10/14 |

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1426293
Report Date: 11/10/14

| Alpha Sample ID | Client ID | Matrix | Sample Location | Collection Date/Time | Receive Date |
|----------------------------|------------------|---------------|----------------------------|---------------------------------|---------------------|
| L1426293-01 | PE-16 | SOIL | WORCESTER, MA | 11/03/14 14:30 | 11/03/14 |
| L1426293-02 | PE-217 | SOIL | WORCESTER, MA | 11/03/14 14:33 | 11/03/14 |
| L1426293-03 | PE-17 | SOIL | WORCESTER, MA | 11/03/14 14:34 | 11/03/14 |
| L1426293-04 | PE-18 | SOIL | WORCESTER, MA | 11/03/14 14:39 | 11/03/14 |
| L1426293-05 | PE-19 | SOIL | WORCESTER, MA | 11/03/14 14:42 | 11/03/14 |
| L1426293-06 | PE-20 | SOIL | WORCESTER, MA | 11/03/14 14:47 | 11/03/14 |
| L1426293-07 | PE-21 | SOIL | WORCESTER, MA | 11/03/14 14:51 | 11/03/14 |
| L1426293-08 | PE-22 | SOIL | WORCESTER, MA | 11/03/14 14:55 | 11/03/14 |
| L1426293-09 | PE-23 | SOIL | WORCESTER, MA | 11/03/14 15:02 | 11/03/14 |
| L1426293-10 | PE-24 | SOIL | WORCESTER, MA | 11/03/14 15:05 | 11/03/14 |

Project Name: HOLY CROSS FIELDHOUSE

Lab Number: L1426293

Project Number: Not Specified

Report Date: 11/10/14

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

| | | |
|--|---|-----|
| An affirmative response to questions A through F is required for "Presumptive Certainty" status | | |
| A | Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times? | YES |
| B | Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed? | YES |
| C | Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances? | YES |
| D | Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?" | YES |
| E a. | VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). | N/A |
| E b. | APH and TO-15 Methods only: Was the complete analyte list reported for each method? | N/A |
| F | Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)? | YES |
| A response to questions G, H and I is required for "Presumptive Certainty" status | | |
| G | Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)? | YES |
| H | Were all QC performance standards specified in the CAM protocol(s) achieved? | NO |
| I | Were results reported for the complete analyte list specified in the selected CAM protocol(s)? | NO |
| For any questions answered "No", please refer to the case narrative section on the following page(s). | | |

Please note that sample matrix information is located in the Sample Results section of this report.



Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1426293
Report Date: 11/10/14

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1426293
Report Date: 11/10/14

Case Narrative (continued)

MCP Related Narratives

Sample Receipt

In reference to question H:

A Matrix Spike was not submitted for the analysis of Metals.

PCBs

L1426293-09 has elevated detection limits due to the dilution required by matrix interferences encountered during the concentration of the sample.

Metals

In reference to question H:

The WG737595-4 MS recovery, performed on L1426293-03, is outside the acceptance criteria for mercury (142%). Re-analysis of the MS yielded an unacceptable recovery for mercury in the range of >125%. The LCS recovery was within acceptance criteria for this analyte; therefore, no further action was taken.

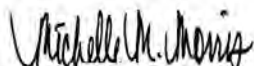
The WG737835-6 serial dilution analysis, associated with L1426293-03, had a %D above the acceptance criteria for Arsenic (15%), Barium (14%), and Chromium (23%).

In reference to question I:

All samples were analyzed for a subset of MCP elements per the Chain of Custody.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

 Michelle M. Morris

Title: Technical Director/Representative

Date: 11/10/14

ORGANICS

PCBS

Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1426293
Report Date: 11/10/14

SAMPLE RESULTS

Lab ID: L1426293-01
Client ID: PE-16
Sample Location: WORCESTER, MA
Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 11/07/14 20:34
Analyst: JT
Percent Solids: 89%

Date Collected: 11/03/14 14:30
Date Received: 11/03/14
Field Prep: Not Specified
Extraction Method: EPA 3540C
Extraction Date: 11/04/14 19:00
Cleanup Method: EPA 3665A
Cleanup Date: 11/06/14
Cleanup Method: EPA 3660B
Cleanup Date: 11/06/14

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|-------|------|-----|-----------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 37.1 | -- | 1 | A |
| Aroclor 1221 | ND | | ug/kg | 37.1 | -- | 1 | A |
| Aroclor 1232 | ND | | ug/kg | 37.1 | -- | 1 | A |
| Aroclor 1242 | ND | | ug/kg | 37.1 | -- | 1 | A |
| Aroclor 1248 | ND | | ug/kg | 37.1 | -- | 1 | A |
| Aroclor 1254 | ND | | ug/kg | 37.1 | -- | 1 | A |
| Aroclor 1260 | ND | | ug/kg | 37.1 | -- | 1 | A |
| Aroclor 1262 | ND | | ug/kg | 37.1 | -- | 1 | A |
| Aroclor 1268 | ND | | ug/kg | 37.1 | -- | 1 | A |
| PCBs, Total | ND | | ug/kg | 37.1 | -- | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 65 | | 30-150 | A |
| Decachlorobiphenyl | 53 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 79 | | 30-150 | B |
| Decachlorobiphenyl | 58 | | 30-150 | B |

Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1426293
Report Date: 11/10/14

SAMPLE RESULTS

Lab ID: L1426293-02
Client ID: PE-217
Sample Location: WORCESTER, MA
Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 11/07/14 20:46
Analyst: JT
Percent Solids: 89%

Date Collected: 11/03/14 14:33
Date Received: 11/03/14
Field Prep: Not Specified
Extraction Method: EPA 3540C
Extraction Date: 11/04/14 19:00
Cleanup Method: EPA 3665A
Cleanup Date: 11/06/14
Cleanup Method: EPA 3660B
Cleanup Date: 11/06/14

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|-------|------|-----|-----------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 37.0 | -- | 1 | A |
| Aroclor 1221 | ND | | ug/kg | 37.0 | -- | 1 | A |
| Aroclor 1232 | ND | | ug/kg | 37.0 | -- | 1 | A |
| Aroclor 1242 | ND | | ug/kg | 37.0 | -- | 1 | A |
| Aroclor 1248 | ND | | ug/kg | 37.0 | -- | 1 | A |
| Aroclor 1254 | ND | | ug/kg | 37.0 | -- | 1 | A |
| Aroclor 1260 | ND | | ug/kg | 37.0 | -- | 1 | B |
| Aroclor 1262 | ND | | ug/kg | 37.0 | -- | 1 | A |
| Aroclor 1268 | ND | | ug/kg | 37.0 | -- | 1 | A |
| PCBs, Total | ND | | ug/kg | 37.0 | -- | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 60 | | 30-150 | A |
| Decachlorobiphenyl | 47 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 70 | | 30-150 | B |
| Decachlorobiphenyl | 53 | | 30-150 | B |

Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1426293
Report Date: 11/10/14

SAMPLE RESULTS

Lab ID: L1426293-03
Client ID: PE-17
Sample Location: WORCESTER, MA
Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 11/07/14 20:59
Analyst: JT
Percent Solids: 88%

Date Collected: 11/03/14 14:34
Date Received: 11/03/14
Field Prep: Not Specified
Extraction Method: EPA 3540C
Extraction Date: 11/04/14 19:00
Cleanup Method: EPA 3665A
Cleanup Date: 11/06/14
Cleanup Method: EPA 3660B
Cleanup Date: 11/06/14

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|-------|------|-----|-----------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 37.3 | -- | 1 | A |
| Aroclor 1221 | ND | | ug/kg | 37.3 | -- | 1 | A |
| Aroclor 1232 | ND | | ug/kg | 37.3 | -- | 1 | A |
| Aroclor 1242 | ND | | ug/kg | 37.3 | -- | 1 | A |
| Aroclor 1248 | ND | | ug/kg | 37.3 | -- | 1 | A |
| Aroclor 1254 | ND | | ug/kg | 37.3 | -- | 1 | A |
| Aroclor 1260 | 165 | | ug/kg | 37.3 | -- | 1 | B |
| Aroclor 1262 | ND | | ug/kg | 37.3 | -- | 1 | A |
| Aroclor 1268 | ND | | ug/kg | 37.3 | -- | 1 | A |
| PCBs, Total | 165 | | ug/kg | 37.3 | -- | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 63 | | 30-150 | A |
| Decachlorobiphenyl | 51 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 73 | | 30-150 | B |
| Decachlorobiphenyl | 57 | | 30-150 | B |

Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1426293
Report Date: 11/10/14

SAMPLE RESULTS

Lab ID: L1426293-04
Client ID: PE-18
Sample Location: WORCESTER, MA
Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 11/07/14 21:11
Analyst: JT
Percent Solids: 86%

Date Collected: 11/03/14 14:39
Date Received: 11/03/14
Field Prep: Not Specified
Extraction Method: EPA 3540C
Extraction Date: 11/04/14 19:00
Cleanup Method: EPA 3665A
Cleanup Date: 11/06/14
Cleanup Method: EPA 3660B
Cleanup Date: 11/06/14

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|-------|------|-----|-----------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 37.5 | -- | 1 | A |
| Aroclor 1221 | ND | | ug/kg | 37.5 | -- | 1 | A |
| Aroclor 1232 | ND | | ug/kg | 37.5 | -- | 1 | A |
| Aroclor 1242 | ND | | ug/kg | 37.5 | -- | 1 | A |
| Aroclor 1248 | ND | | ug/kg | 37.5 | -- | 1 | A |
| Aroclor 1254 | ND | | ug/kg | 37.5 | -- | 1 | A |
| Aroclor 1260 | ND | | ug/kg | 37.5 | -- | 1 | A |
| Aroclor 1262 | ND | | ug/kg | 37.5 | -- | 1 | A |
| Aroclor 1268 | ND | | ug/kg | 37.5 | -- | 1 | A |
| PCBs, Total | ND | | ug/kg | 37.5 | -- | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 60 | | 30-150 | A |
| Decachlorobiphenyl | 50 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 73 | | 30-150 | B |
| Decachlorobiphenyl | 57 | | 30-150 | B |

Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1426293
Report Date: 11/10/14

SAMPLE RESULTS

Lab ID: L1426293-05
Client ID: PE-19
Sample Location: WORCESTER, MA
Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 11/07/14 21:23
Analyst: JT
Percent Solids: 83%

Date Collected: 11/03/14 14:42
Date Received: 11/03/14
Field Prep: Not Specified
Extraction Method: EPA 3540C
Extraction Date: 11/04/14 19:00
Cleanup Method: EPA 3665A
Cleanup Date: 11/06/14
Cleanup Method: EPA 3660B
Cleanup Date: 11/06/14

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|-------|------|-----|-----------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 39.2 | -- | 1 | A |
| Aroclor 1221 | ND | | ug/kg | 39.2 | -- | 1 | A |
| Aroclor 1232 | ND | | ug/kg | 39.2 | -- | 1 | A |
| Aroclor 1242 | ND | | ug/kg | 39.2 | -- | 1 | A |
| Aroclor 1248 | ND | | ug/kg | 39.2 | -- | 1 | A |
| Aroclor 1254 | ND | | ug/kg | 39.2 | -- | 1 | A |
| Aroclor 1260 | ND | | ug/kg | 39.2 | -- | 1 | A |
| Aroclor 1262 | ND | | ug/kg | 39.2 | -- | 1 | A |
| Aroclor 1268 | ND | | ug/kg | 39.2 | -- | 1 | A |
| PCBs, Total | ND | | ug/kg | 39.2 | -- | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 56 | | 30-150 | A |
| Decachlorobiphenyl | 43 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 70 | | 30-150 | B |
| Decachlorobiphenyl | 52 | | 30-150 | B |

Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1426293
Report Date: 11/10/14

SAMPLE RESULTS

Lab ID: L1426293-06
Client ID: PE-20
Sample Location: WORCESTER, MA
Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 11/07/14 21:36
Analyst: JT
Percent Solids: 89%

Date Collected: 11/03/14 14:47
Date Received: 11/03/14
Field Prep: Not Specified
Extraction Method: EPA 3540C
Extraction Date: 11/04/14 19:00
Cleanup Method: EPA 3665A
Cleanup Date: 11/06/14
Cleanup Method: EPA 3660B
Cleanup Date: 11/06/14

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|-------|------|-----|-----------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 37.2 | -- | 1 | A |
| Aroclor 1221 | ND | | ug/kg | 37.2 | -- | 1 | A |
| Aroclor 1232 | ND | | ug/kg | 37.2 | -- | 1 | A |
| Aroclor 1242 | ND | | ug/kg | 37.2 | -- | 1 | A |
| Aroclor 1248 | ND | | ug/kg | 37.2 | -- | 1 | A |
| Aroclor 1254 | ND | | ug/kg | 37.2 | -- | 1 | A |
| Aroclor 1260 | ND | | ug/kg | 37.2 | -- | 1 | B |
| Aroclor 1262 | ND | | ug/kg | 37.2 | -- | 1 | A |
| Aroclor 1268 | ND | | ug/kg | 37.2 | -- | 1 | A |
| PCBs, Total | ND | | ug/kg | 37.2 | -- | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 62 | | 30-150 | A |
| Decachlorobiphenyl | 46 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 75 | | 30-150 | B |
| Decachlorobiphenyl | 54 | | 30-150 | B |

Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1426293
Report Date: 11/10/14

SAMPLE RESULTS

Lab ID: L1426293-07
Client ID: PE-21
Sample Location: WORCESTER, MA
Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 11/07/14 21:48
Analyst: JT
Percent Solids: 88%

Date Collected: 11/03/14 14:51
Date Received: 11/03/14
Field Prep: Not Specified
Extraction Method: EPA 3540C
Extraction Date: 11/04/14 19:00
Cleanup Method: EPA 3665A
Cleanup Date: 11/06/14
Cleanup Method: EPA 3660B
Cleanup Date: 11/06/14

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|-------|------|-----|-----------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 37.0 | -- | 1 | A |
| Aroclor 1221 | ND | | ug/kg | 37.0 | -- | 1 | A |
| Aroclor 1232 | ND | | ug/kg | 37.0 | -- | 1 | A |
| Aroclor 1242 | ND | | ug/kg | 37.0 | -- | 1 | A |
| Aroclor 1248 | ND | | ug/kg | 37.0 | -- | 1 | A |
| Aroclor 1254 | ND | | ug/kg | 37.0 | -- | 1 | A |
| Aroclor 1260 | ND | | ug/kg | 37.0 | -- | 1 | A |
| Aroclor 1262 | ND | | ug/kg | 37.0 | -- | 1 | A |
| Aroclor 1268 | ND | | ug/kg | 37.0 | -- | 1 | A |
| PCBs, Total | ND | | ug/kg | 37.0 | -- | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 64 | | 30-150 | A |
| Decachlorobiphenyl | 47 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 77 | | 30-150 | B |
| Decachlorobiphenyl | 55 | | 30-150 | B |

Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1426293
Report Date: 11/10/14

SAMPLE RESULTS

Lab ID: L1426293-08
Client ID: PE-22
Sample Location: WORCESTER, MA
Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 11/07/14 22:01
Analyst: JT
Percent Solids: 89%

Date Collected: 11/03/14 14:55
Date Received: 11/03/14
Field Prep: Not Specified
Extraction Method: EPA 3540C
Extraction Date: 11/04/14 19:00
Cleanup Method: EPA 3665A
Cleanup Date: 11/06/14
Cleanup Method: EPA 3660B
Cleanup Date: 11/06/14

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|-------|------|-----|-----------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 35.9 | -- | 1 | A |
| Aroclor 1221 | ND | | ug/kg | 35.9 | -- | 1 | A |
| Aroclor 1232 | ND | | ug/kg | 35.9 | -- | 1 | A |
| Aroclor 1242 | ND | | ug/kg | 35.9 | -- | 1 | A |
| Aroclor 1248 | ND | | ug/kg | 35.9 | -- | 1 | A |
| Aroclor 1254 | ND | | ug/kg | 35.9 | -- | 1 | A |
| Aroclor 1260 | ND | | ug/kg | 35.9 | -- | 1 | A |
| Aroclor 1262 | ND | | ug/kg | 35.9 | -- | 1 | A |
| Aroclor 1268 | ND | | ug/kg | 35.9 | -- | 1 | A |
| PCBs, Total | ND | | ug/kg | 35.9 | -- | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 61 | | 30-150 | A |
| Decachlorobiphenyl | 46 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 74 | | 30-150 | B |
| Decachlorobiphenyl | 53 | | 30-150 | B |

Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1426293
Report Date: 11/10/14

SAMPLE RESULTS

Lab ID: L1426293-09
Client ID: PE-23
Sample Location: WORCESTER, MA
Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 11/07/14 22:13
Analyst: JT
Percent Solids: 76%

Date Collected: 11/03/14 15:02
Date Received: 11/03/14
Field Prep: Not Specified
Extraction Method: EPA 3540C
Extraction Date: 11/04/14 19:00
Cleanup Method: EPA 3665A
Cleanup Date: 11/06/14
Cleanup Method: EPA 3660B
Cleanup Date: 11/06/14

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|-------|------|-----|-----------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 84.1 | -- | 2 | A |
| Aroclor 1221 | ND | | ug/kg | 84.1 | -- | 2 | A |
| Aroclor 1232 | ND | | ug/kg | 84.1 | -- | 2 | A |
| Aroclor 1242 | ND | | ug/kg | 84.1 | -- | 2 | A |
| Aroclor 1248 | ND | | ug/kg | 84.1 | -- | 2 | A |
| Aroclor 1254 | ND | | ug/kg | 84.1 | -- | 2 | A |
| Aroclor 1260 | 480 | | ug/kg | 84.1 | -- | 2 | B |
| Aroclor 1262 | ND | | ug/kg | 84.1 | -- | 2 | A |
| Aroclor 1268 | ND | | ug/kg | 84.1 | -- | 2 | A |
| PCBs, Total | 480 | | ug/kg | 84.1 | -- | 2 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 61 | | 30-150 | A |
| Decachlorobiphenyl | 52 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 72 | | 30-150 | B |
| Decachlorobiphenyl | 58 | | 30-150 | B |

Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1426293
Report Date: 11/10/14

SAMPLE RESULTS

Lab ID: L1426293-10
Client ID: PE-24
Sample Location: WORCESTER, MA
Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 11/07/14 22:25
Analyst: JT
Percent Solids: 89%

Date Collected: 11/03/14 15:05
Date Received: 11/03/14
Field Prep: Not Specified
Extraction Method: EPA 3540C
Extraction Date: 11/04/14 19:00
Cleanup Method: EPA 3665A
Cleanup Date: 11/06/14
Cleanup Method: EPA 3660B
Cleanup Date: 11/06/14

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|-------|------|-----|-----------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 36.5 | -- | 1 | A |
| Aroclor 1221 | ND | | ug/kg | 36.5 | -- | 1 | A |
| Aroclor 1232 | ND | | ug/kg | 36.5 | -- | 1 | A |
| Aroclor 1242 | ND | | ug/kg | 36.5 | -- | 1 | A |
| Aroclor 1248 | ND | | ug/kg | 36.5 | -- | 1 | A |
| Aroclor 1254 | ND | | ug/kg | 36.5 | -- | 1 | A |
| Aroclor 1260 | ND | | ug/kg | 36.5 | -- | 1 | B |
| Aroclor 1262 | ND | | ug/kg | 36.5 | -- | 1 | A |
| Aroclor 1268 | ND | | ug/kg | 36.5 | -- | 1 | A |
| PCBs, Total | ND | | ug/kg | 36.5 | -- | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 63 | | 30-150 | A |
| Decachlorobiphenyl | 48 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 74 | | 30-150 | B |
| Decachlorobiphenyl | 55 | | 30-150 | B |

Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1426293**Project Number:** Not Specified**Report Date:** 11/10/14

Method Blank Analysis Batch Quality Control

Analytical Method: 97,8082A
 Analytical Date: 11/06/14 13:59
 Analyst: JT

Extraction Method: EPA 3540C
 Extraction Date: 11/04/14 17:02
 Cleanup Method: EPA 3665A
 Cleanup Date: 11/05/14
 Cleanup Method: EPA 3660B
 Cleanup Date: 11/05/14

| Parameter | Result | Qualifier | Units | RL | MDL | Column |
|--|--------|-----------|-------|------|-----|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab for sample(s): 01-10 Batch: WG737487-1 | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 33.1 | -- | A |
| Aroclor 1221 | ND | | ug/kg | 33.1 | -- | A |
| Aroclor 1232 | ND | | ug/kg | 33.1 | -- | A |
| Aroclor 1242 | ND | | ug/kg | 33.1 | -- | A |
| Aroclor 1248 | ND | | ug/kg | 33.1 | -- | A |
| Aroclor 1254 | ND | | ug/kg | 33.1 | -- | A |
| Aroclor 1260 | ND | | ug/kg | 33.1 | -- | A |
| Aroclor 1262 | ND | | ug/kg | 33.1 | -- | A |
| Aroclor 1268 | ND | | ug/kg | 33.1 | -- | A |
| PCBs, Total | ND | | ug/kg | 33.1 | -- | A |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|-----------|-----------|------------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 85 | | 30-150 | A |
| Decachlorobiphenyl | 83 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 84 | | 30-150 | B |
| Decachlorobiphenyl | 91 | | 30-150 | B |

Matrix Spike Analysis

Batch Quality Control

Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1426293**Project Number:** Not Specified**Report Date:** 11/10/14

| <i>Parameter</i> | <i>Native Sample</i> | <i>MS Added</i> | <i>MS Found</i> | <i>MS %Recovery</i> | <i>Qual</i> | <i>MSD Found</i> | <i>MSD %Recovery</i> | <i>Qual</i> | <i>Recovery Limits</i> | <i>RPD</i> | <i>Qual</i> | <i>RPD Limits</i> | <i>Column</i> |
|--|----------------------|-----------------|-----------------|---------------------|-------------|------------------|----------------------|-------------|------------------------|------------|-------------|-------------------|---------------|
| MCP Polychlorinated Biphenyls - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG737487-4 QC Sample: L1426293-03 Client ID: PE-17 | | | | | | | | | | | | | |
| Aroclor 1016 | ND | 234 | 139 | 59 | | - | - | | 40-140 | - | | 30 | A |
| Aroclor 1260 | ND | 234 | 279 | 57 | | - | - | | 40-140 | - | | 30 | A |

| <i>Surrogate</i> | <i>MS % Recovery</i> | <i>Qualifier</i> | <i>MSD % Recovery</i> | <i>Qualifier</i> | <i>Acceptance Criteria</i> | <i>Column</i> |
|------------------------------|----------------------|------------------|-----------------------|------------------|----------------------------|---------------|
| 2,4,5,6-Tetrachloro-m-xylene | 54 | | | | 30-150 | A |
| Decachlorobiphenyl | 41 | | | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 65 | | | | 30-150 | B |
| Decachlorobiphenyl | 48 | | | | 30-150 | B |

Lab Control Sample Analysis**Batch Quality Control****Project Name:** HOLY CROSS FIELDHOUSE**Lab Number:** L1426293**Project Number:** Not Specified**Report Date:** 11/10/14

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits | Column |
|--|--------------------------|-------------|---------------------------|-------------|-----------------------------|------------|-------------|-----------------------|---------------|
| MCP Polychlorinated Biphenyls - Westborough Lab Associated sample(s): 01-10 Batch: WG737487-2 WG737487-3 | | | | | | | | | |
| Aroclor 1016 | 89 | | 92 | | 40-140 | 3 | | 30 | A |
| Aroclor 1260 | 90 | | 90 | | 40-140 | 0 | | 30 | A |

| Surrogate | LCS %Recovery | Qual | LCSD %Recovery | Qual | Acceptance Criteria | Column |
|------------------------------|--------------------------|-------------|---------------------------|-------------|--------------------------------|---------------|
| 2,4,5,6-Tetrachloro-m-xylene | 91 | | 95 | | 30-150 | A |
| Decachlorobiphenyl | 91 | | 94 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 90 | | 94 | | 30-150 | B |
| Decachlorobiphenyl | 99 | | 101 | | 30-150 | B |

METALS

Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1426293**Project Number:** Not Specified**Report Date:** 11/10/14**SAMPLE RESULTS**

Lab ID: L1426293-01

Date Collected: 11/03/14 14:30

Client ID: PE-16

Date Received: 11/03/14

Sample Location: WORCESTER, MA

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 89%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|------------------------------------|--------|-----------|-------|-------|-----|-----------------|----------------|----------------|-------------|-------------------|---------|
| MCP Total Metals - Westborough Lab | | | | | | | | | | | |
| Arsenic, Total | 22 | | mg/kg | 0.42 | -- | 1 | 11/05/14 16:35 | 11/07/14 12:01 | EPA 3050B | 97,6010C | BC |
| Barium, Total | 53 | | mg/kg | 0.42 | -- | 1 | 11/05/14 16:35 | 11/07/14 12:01 | EPA 3050B | 97,6010C | BC |
| Cadmium, Total | ND | | mg/kg | 0.42 | -- | 1 | 11/05/14 16:35 | 11/07/14 12:01 | EPA 3050B | 97,6010C | BC |
| Chromium, Total | 28 | | mg/kg | 0.42 | -- | 1 | 11/05/14 16:35 | 11/07/14 12:01 | EPA 3050B | 97,6010C | BC |
| Lead, Total | 5.4 | | mg/kg | 2.1 | -- | 1 | 11/05/14 16:35 | 11/07/14 12:01 | EPA 3050B | 97,6010C | BC |
| Mercury, Total | ND | | mg/kg | 0.073 | -- | 1 | 11/05/14 08:55 | 11/05/14 16:13 | EPA 7471B | 97,7471B | MC |
| Selenium, Total | ND | | mg/kg | 2.1 | -- | 1 | 11/05/14 16:35 | 11/07/14 12:01 | EPA 3050B | 97,6010C | BC |
| Silver, Total | ND | | mg/kg | 0.42 | -- | 1 | 11/05/14 16:35 | 11/07/14 12:01 | EPA 3050B | 97,6010C | BC |



Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1426293**Project Number:** Not Specified**Report Date:** 11/10/14**SAMPLE RESULTS**

Lab ID: L1426293-02

Date Collected: 11/03/14 14:33

Client ID: PE-217

Date Received: 11/03/14

Sample Location: WORCESTER, MA

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 89%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|------------------------------------|--------|-----------|-------|-------|-----|-----------------|----------------|----------------|-------------|-------------------|---------|
| MCP Total Metals - Westborough Lab | | | | | | | | | | | |
| Arsenic, Total | 23 | | mg/kg | 0.44 | -- | 1 | 11/05/14 16:35 | 11/07/14 12:24 | EPA 3050B | 97,6010C | BC |
| Barium, Total | 52 | | mg/kg | 0.44 | -- | 1 | 11/05/14 16:35 | 11/07/14 12:24 | EPA 3050B | 97,6010C | BC |
| Cadmium, Total | ND | | mg/kg | 0.44 | -- | 1 | 11/05/14 16:35 | 11/07/14 12:24 | EPA 3050B | 97,6010C | BC |
| Chromium, Total | 26 | | mg/kg | 0.44 | -- | 1 | 11/05/14 16:35 | 11/07/14 12:24 | EPA 3050B | 97,6010C | BC |
| Lead, Total | 7.0 | | mg/kg | 2.2 | -- | 1 | 11/05/14 16:35 | 11/07/14 12:24 | EPA 3050B | 97,6010C | BC |
| Mercury, Total | ND | | mg/kg | 0.075 | -- | 1 | 11/05/14 08:55 | 11/05/14 16:15 | EPA 7471B | 97,7471B | MC |
| Selenium, Total | ND | | mg/kg | 2.2 | -- | 1 | 11/05/14 16:35 | 11/07/14 12:24 | EPA 3050B | 97,6010C | BC |
| Silver, Total | ND | | mg/kg | 0.44 | -- | 1 | 11/05/14 16:35 | 11/07/14 12:24 | EPA 3050B | 97,6010C | BC |



Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1426293**Project Number:** Not Specified**Report Date:** 11/10/14**SAMPLE RESULTS**

Lab ID: L1426293-03

Date Collected: 11/03/14 14:34

Client ID: PE-17

Date Received: 11/03/14

Sample Location: WORCESTER, MA

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 88%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|------------------------------------|--------|-----------|-------|-------|-----|-----------------|----------------|----------------|-------------|-------------------|---------|
| MCP Total Metals - Westborough Lab | | | | | | | | | | | |
| Arsenic, Total | 26 | | mg/kg | 0.45 | -- | 1 | 11/05/14 16:35 | 11/07/14 11:49 | EPA 3050B | 97,6010C | BC |
| Barium, Total | 57 | | mg/kg | 0.45 | -- | 1 | 11/05/14 16:35 | 11/07/14 11:49 | EPA 3050B | 97,6010C | BC |
| Cadmium, Total | ND | | mg/kg | 0.45 | -- | 1 | 11/05/14 16:35 | 11/07/14 11:49 | EPA 3050B | 97,6010C | BC |
| Chromium, Total | 26 | | mg/kg | 0.45 | -- | 1 | 11/05/14 16:35 | 11/07/14 11:49 | EPA 3050B | 97,6010C | BC |
| Lead, Total | 7.3 | | mg/kg | 2.2 | -- | 1 | 11/05/14 16:35 | 11/07/14 11:49 | EPA 3050B | 97,6010C | BC |
| Mercury, Total | ND | | mg/kg | 0.072 | -- | 1 | 11/05/14 08:55 | 11/05/14 17:05 | EPA 7471B | 97,7471B | MC |
| Selenium, Total | ND | | mg/kg | 2.2 | -- | 1 | 11/05/14 16:35 | 11/07/14 11:49 | EPA 3050B | 97,6010C | BC |
| Silver, Total | ND | | mg/kg | 0.45 | -- | 1 | 11/05/14 16:35 | 11/07/14 11:49 | EPA 3050B | 97,6010C | BC |



Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1426293**Project Number:** Not Specified**Report Date:** 11/10/14**SAMPLE RESULTS****Lab ID:** L1426293-04**Date Collected:** 11/03/14 14:39**Client ID:** PE-18**Date Received:** 11/03/14**Sample Location:** WORCESTER, MA**Field Prep:** Not Specified**Matrix:** Soil**Percent Solids:** 86%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|------------------------------------|--------|-----------|-------|-------|-----|-----------------|----------------|----------------|-------------|-------------------|---------|
| MCP Total Metals - Westborough Lab | | | | | | | | | | | |
| Arsenic, Total | 27 | | mg/kg | 0.44 | -- | 1 | 11/05/14 16:35 | 11/07/14 12:28 | EPA 3050B | 97,6010C | BC |
| Barium, Total | 56 | | mg/kg | 0.44 | -- | 1 | 11/05/14 16:35 | 11/07/14 12:28 | EPA 3050B | 97,6010C | BC |
| Cadmium, Total | ND | | mg/kg | 0.44 | -- | 1 | 11/05/14 16:35 | 11/07/14 12:28 | EPA 3050B | 97,6010C | BC |
| Chromium, Total | 28 | | mg/kg | 0.44 | -- | 1 | 11/05/14 16:35 | 11/07/14 12:28 | EPA 3050B | 97,6010C | BC |
| Lead, Total | 6.3 | | mg/kg | 2.2 | -- | 1 | 11/05/14 16:35 | 11/07/14 12:28 | EPA 3050B | 97,6010C | BC |
| Mercury, Total | ND | | mg/kg | 0.082 | -- | 1 | 11/05/14 08:55 | 11/05/14 16:17 | EPA 7471B | 97,7471B | MC |
| Selenium, Total | ND | | mg/kg | 2.2 | -- | 1 | 11/05/14 16:35 | 11/07/14 12:28 | EPA 3050B | 97,6010C | BC |
| Silver, Total | ND | | mg/kg | 0.44 | -- | 1 | 11/05/14 16:35 | 11/07/14 12:28 | EPA 3050B | 97,6010C | BC |



Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1426293**Project Number:** Not Specified**Report Date:** 11/10/14**SAMPLE RESULTS****Lab ID:** L1426293-05**Date Collected:** 11/03/14 14:42**Client ID:** PE-19**Date Received:** 11/03/14**Sample Location:** WORCESTER, MA**Field Prep:** Not Specified**Matrix:** Soil**Percent Solids:** 83%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|-----------|--------|-----------|-------|----|-----|-----------------|---------------|---------------|-------------|-------------------|---------|
|-----------|--------|-----------|-------|----|-----|-----------------|---------------|---------------|-------------|-------------------|---------|

MCP Total Metals - Westborough Lab

| | | | | | | | | | | | |
|-----------------|-----|--|-------|-------|----|---|----------------|----------------|-----------|----------|----|
| Arsenic, Total | 24 | | mg/kg | 0.46 | -- | 1 | 11/05/14 16:35 | 11/07/14 12:32 | EPA 3050B | 97,6010C | BC |
| Barium, Total | 49 | | mg/kg | 0.46 | -- | 1 | 11/05/14 16:35 | 11/07/14 12:32 | EPA 3050B | 97,6010C | BC |
| Cadmium, Total | ND | | mg/kg | 0.46 | -- | 1 | 11/05/14 16:35 | 11/07/14 12:32 | EPA 3050B | 97,6010C | BC |
| Chromium, Total | 29 | | mg/kg | 0.46 | -- | 1 | 11/05/14 16:35 | 11/07/14 12:32 | EPA 3050B | 97,6010C | BC |
| Lead, Total | 6.0 | | mg/kg | 2.3 | -- | 1 | 11/05/14 16:35 | 11/07/14 12:32 | EPA 3050B | 97,6010C | BC |
| Mercury, Total | ND | | mg/kg | 0.075 | -- | 1 | 11/05/14 08:55 | 11/05/14 16:18 | EPA 7471B | 97,7471B | MC |
| Selenium, Total | ND | | mg/kg | 2.3 | -- | 1 | 11/05/14 16:35 | 11/07/14 12:32 | EPA 3050B | 97,6010C | BC |
| Silver, Total | ND | | mg/kg | 0.46 | -- | 1 | 11/05/14 16:35 | 11/07/14 12:32 | EPA 3050B | 97,6010C | BC |



Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1426293**Project Number:** Not Specified**Report Date:** 11/10/14**SAMPLE RESULTS****Lab ID:** L1426293-06**Date Collected:** 11/03/14 14:47**Client ID:** PE-20**Date Received:** 11/03/14**Sample Location:** WORCESTER, MA**Field Prep:** Not Specified**Matrix:** Soil**Percent Solids:** 89%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|------------------------------------|--------|-----------|-------|-------|-----|-----------------|----------------|----------------|-------------|-------------------|---------|
| MCP Total Metals - Westborough Lab | | | | | | | | | | | |
| Arsenic, Total | 19 | | mg/kg | 0.43 | -- | 1 | 11/05/14 16:35 | 11/07/14 12:36 | EPA 3050B | 97,6010C | BC |
| Barium, Total | 37 | | mg/kg | 0.43 | -- | 1 | 11/05/14 16:35 | 11/07/14 12:36 | EPA 3050B | 97,6010C | BC |
| Cadmium, Total | ND | | mg/kg | 0.43 | -- | 1 | 11/05/14 16:35 | 11/07/14 12:36 | EPA 3050B | 97,6010C | BC |
| Chromium, Total | 20 | | mg/kg | 0.43 | -- | 1 | 11/05/14 16:35 | 11/07/14 12:36 | EPA 3050B | 97,6010C | BC |
| Lead, Total | 10 | | mg/kg | 2.2 | -- | 1 | 11/05/14 16:35 | 11/07/14 12:36 | EPA 3050B | 97,6010C | BC |
| Mercury, Total | ND | | mg/kg | 0.070 | -- | 1 | 11/05/14 08:55 | 11/05/14 16:20 | EPA 7471B | 97,7471B | MC |
| Selenium, Total | ND | | mg/kg | 2.2 | -- | 1 | 11/05/14 16:35 | 11/07/14 12:36 | EPA 3050B | 97,6010C | BC |
| Silver, Total | ND | | mg/kg | 0.43 | -- | 1 | 11/05/14 16:35 | 11/07/14 12:36 | EPA 3050B | 97,6010C | BC |



Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1426293**Project Number:** Not Specified**Report Date:** 11/10/14**SAMPLE RESULTS****Lab ID:** L1426293-07**Date Collected:** 11/03/14 14:51**Client ID:** PE-21**Date Received:** 11/03/14**Sample Location:** WORCESTER, MA**Field Prep:** Not Specified**Matrix:** Soil**Percent Solids:** 88%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|------------------------------------|--------|-----------|-------|-------|-----|-----------------|----------------|----------------|-------------|-------------------|---------|
| MCP Total Metals - Westborough Lab | | | | | | | | | | | |
| Arsenic, Total | 24 | | mg/kg | 0.42 | -- | 1 | 11/05/14 16:35 | 11/07/14 12:40 | EPA 3050B | 97,6010C | BC |
| Barium, Total | 34 | | mg/kg | 0.42 | -- | 1 | 11/05/14 16:35 | 11/07/14 12:40 | EPA 3050B | 97,6010C | BC |
| Cadmium, Total | 0.53 | | mg/kg | 0.42 | -- | 1 | 11/05/14 16:35 | 11/07/14 12:40 | EPA 3050B | 97,6010C | BC |
| Chromium, Total | 23 | | mg/kg | 0.42 | -- | 1 | 11/05/14 16:35 | 11/07/14 12:40 | EPA 3050B | 97,6010C | BC |
| Lead, Total | 8.0 | | mg/kg | 2.1 | -- | 1 | 11/05/14 16:35 | 11/07/14 12:40 | EPA 3050B | 97,6010C | BC |
| Mercury, Total | ND | | mg/kg | 0.074 | -- | 1 | 11/05/14 08:55 | 11/05/14 16:22 | EPA 7471B | 97,7471B | MC |
| Selenium, Total | ND | | mg/kg | 2.1 | -- | 1 | 11/05/14 16:35 | 11/07/14 12:40 | EPA 3050B | 97,6010C | BC |
| Silver, Total | ND | | mg/kg | 0.42 | -- | 1 | 11/05/14 16:35 | 11/07/14 12:40 | EPA 3050B | 97,6010C | BC |



Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1426293**Project Number:** Not Specified**Report Date:** 11/10/14**SAMPLE RESULTS**

Lab ID: L1426293-08

Date Collected: 11/03/14 14:55

Client ID: PE-22

Date Received: 11/03/14

Sample Location: WORCESTER, MA

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 89%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|------------------------------------|--------|-----------|-------|-------|-----|-----------------|----------------|----------------|-------------|-------------------|---------|
| MCP Total Metals - Westborough Lab | | | | | | | | | | | |
| Arsenic, Total | 22 | | mg/kg | 0.43 | -- | 1 | 11/05/14 16:35 | 11/07/14 12:44 | EPA 3050B | 97,6010C | BC |
| Barium, Total | 44 | | mg/kg | 0.43 | -- | 1 | 11/05/14 16:35 | 11/07/14 12:44 | EPA 3050B | 97,6010C | BC |
| Cadmium, Total | ND | | mg/kg | 0.43 | -- | 1 | 11/05/14 16:35 | 11/07/14 12:44 | EPA 3050B | 97,6010C | BC |
| Chromium, Total | 25 | | mg/kg | 0.43 | -- | 1 | 11/05/14 16:35 | 11/07/14 12:44 | EPA 3050B | 97,6010C | BC |
| Lead, Total | 6.8 | | mg/kg | 2.1 | -- | 1 | 11/05/14 16:35 | 11/07/14 12:44 | EPA 3050B | 97,6010C | BC |
| Mercury, Total | ND | | mg/kg | 0.074 | -- | 1 | 11/05/14 08:55 | 11/05/14 16:24 | EPA 7471B | 97,7471B | MC |
| Selenium, Total | ND | | mg/kg | 2.1 | -- | 1 | 11/05/14 16:35 | 11/07/14 12:44 | EPA 3050B | 97,6010C | BC |
| Silver, Total | ND | | mg/kg | 0.43 | -- | 1 | 11/05/14 16:35 | 11/07/14 12:44 | EPA 3050B | 97,6010C | BC |



Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1426293**Project Number:** Not Specified**Report Date:** 11/10/14**SAMPLE RESULTS****Lab ID:** L1426293-09**Date Collected:** 11/03/14 15:02**Client ID:** PE-23**Date Received:** 11/03/14**Sample Location:** WORCESTER, MA**Field Prep:** Not Specified**Matrix:** Soil**Percent Solids:** 76%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|------------------------------------|--------|-----------|-------|-------|-----|-----------------|----------------|----------------|-------------|-------------------|---------|
| MCP Total Metals - Westborough Lab | | | | | | | | | | | |
| Arsenic, Total | 19 | | mg/kg | 0.50 | -- | 1 | 11/05/14 16:35 | 11/07/14 12:48 | EPA 3050B | 97,6010C | BC |
| Barium, Total | 40 | | mg/kg | 0.50 | -- | 1 | 11/05/14 16:35 | 11/07/14 12:48 | EPA 3050B | 97,6010C | BC |
| Cadmium, Total | ND | | mg/kg | 0.50 | -- | 1 | 11/05/14 16:35 | 11/07/14 12:48 | EPA 3050B | 97,6010C | BC |
| Chromium, Total | 18 | | mg/kg | 0.50 | -- | 1 | 11/05/14 16:35 | 11/07/14 12:48 | EPA 3050B | 97,6010C | BC |
| Lead, Total | 22 | | mg/kg | 2.5 | -- | 1 | 11/05/14 16:35 | 11/07/14 12:48 | EPA 3050B | 97,6010C | BC |
| Mercury, Total | ND | | mg/kg | 0.085 | -- | 1 | 11/05/14 08:55 | 11/05/14 16:25 | EPA 7471B | 97,7471B | MC |
| Selenium, Total | ND | | mg/kg | 2.5 | -- | 1 | 11/05/14 16:35 | 11/07/14 12:48 | EPA 3050B | 97,6010C | BC |
| Silver, Total | ND | | mg/kg | 0.50 | -- | 1 | 11/05/14 16:35 | 11/07/14 12:48 | EPA 3050B | 97,6010C | BC |



Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1426293**Project Number:** Not Specified**Report Date:** 11/10/14**SAMPLE RESULTS**

Lab ID: L1426293-10

Date Collected: 11/03/14 15:05

Client ID: PE-24

Date Received: 11/03/14

Sample Location: WORCESTER, MA

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 89%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|------------------------------------|--------|-----------|-------|-------|-----|-----------------|----------------|----------------|-------------|-------------------|---------|
| MCP Total Metals - Westborough Lab | | | | | | | | | | | |
| Arsenic, Total | 18 | | mg/kg | 0.42 | -- | 1 | 11/05/14 16:35 | 11/07/14 12:52 | EPA 3050B | 97,6010C | BC |
| Barium, Total | 34 | | mg/kg | 0.42 | -- | 1 | 11/05/14 16:35 | 11/07/14 12:52 | EPA 3050B | 97,6010C | BC |
| Cadmium, Total | 0.61 | | mg/kg | 0.42 | -- | 1 | 11/05/14 16:35 | 11/07/14 12:52 | EPA 3050B | 97,6010C | BC |
| Chromium, Total | 20 | | mg/kg | 0.42 | -- | 1 | 11/05/14 16:35 | 11/07/14 12:52 | EPA 3050B | 97,6010C | BC |
| Lead, Total | 4.7 | | mg/kg | 2.1 | -- | 1 | 11/05/14 16:35 | 11/07/14 12:52 | EPA 3050B | 97,6010C | BC |
| Mercury, Total | ND | | mg/kg | 0.071 | -- | 1 | 11/05/14 08:55 | 11/05/14 16:27 | EPA 7471B | 97,7471B | MC |
| Selenium, Total | ND | | mg/kg | 2.1 | -- | 1 | 11/05/14 16:35 | 11/07/14 12:52 | EPA 3050B | 97,6010C | BC |
| Silver, Total | ND | | mg/kg | 0.42 | -- | 1 | 11/05/14 16:35 | 11/07/14 12:52 | EPA 3050B | 97,6010C | BC |



Project Name: HOLY CROSS FIELDHOUSE

Lab Number: L1426293

Project Number: Not Specified

Report Date: 11/10/14

Method Blank Analysis Batch Quality Control

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|---|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| MCP Total Metals - Westborough Lab for sample(s): 01-02,04-10 Batch: WG737592-1 | | | | | | | | | | |
| Mercury, Total | ND | | mg/kg | 0.083 | -- | 1 | 11/05/14 08:55 | 11/05/14 15:54 | 97,7471B | MC |

Prep Information

Digestion Method: EPA 7471B

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|--|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| MCP Total Metals - Westborough Lab for sample(s): 03 Batch: WG737595-1 | | | | | | | | | | |
| Mercury, Total | ND | | mg/kg | 0.083 | -- | 1 | 11/05/14 08:55 | 11/05/14 16:59 | 97,7471B | MC |

Prep Information

Digestion Method: EPA 7471B

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|---|--------|-----------|-------|------|-----|--------------------|------------------|------------------|----------------------|---------|
| MCP Total Metals - Westborough Lab for sample(s): 01-10 Batch: WG737835-1 | | | | | | | | | | |
| Arsenic, Total | ND | | mg/kg | 0.40 | -- | 1 | 11/05/14 16:35 | 11/07/14 11:37 | 97,6010C | BC |
| Barium, Total | ND | | mg/kg | 0.40 | -- | 1 | 11/05/14 16:35 | 11/07/14 11:37 | 97,6010C | BC |
| Cadmium, Total | ND | | mg/kg | 0.40 | -- | 1 | 11/05/14 16:35 | 11/07/14 11:37 | 97,6010C | BC |
| Chromium, Total | ND | | mg/kg | 0.40 | -- | 1 | 11/05/14 16:35 | 11/07/14 11:37 | 97,6010C | BC |
| Lead, Total | ND | | mg/kg | 2.0 | -- | 1 | 11/05/14 16:35 | 11/07/14 11:37 | 97,6010C | BC |
| Selenium, Total | ND | | mg/kg | 2.0 | -- | 1 | 11/05/14 16:35 | 11/07/14 11:37 | 97,6010C | BC |
| Silver, Total | ND | | mg/kg | 0.40 | -- | 1 | 11/05/14 16:35 | 11/07/14 11:37 | 97,6010C | BC |

Prep Information

Digestion Method: EPA 3050B



Lab Control Sample Analysis**Batch Quality Control****Project Name:** HOLY CROSS FIELDHOUSE**Lab Number:** L1426293**Project Number:** Not Specified**Report Date:** 11/10/14

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|--|------------------|------|-------------------|------|---------------------|-----|------|------------|
| MCP Total Metals - Westborough Lab Associated sample(s): 01-02,04-10 Batch: WG737592-2 WG737592-3 SRM Lot Number: D083-540 | | | | | | | | |
| Mercury, Total | 121 | | 124 | | 75-126 | 2 | | 30 |
| MCP Total Metals - Westborough Lab Associated sample(s): 03 Batch: WG737595-2 WG737595-3 SRM Lot Number: D083-540 | | | | | | | | |
| Mercury, Total | 122 | | 123 | | 75-126 | 1 | | 30 |
| MCP Total Metals - Westborough Lab Associated sample(s): 01-10 Batch: WG737835-2 WG737835-3 SRM Lot Number: D083-540 | | | | | | | | |
| Arsenic, Total | 106 | | 106 | | 78-122 | 0 | | 30 |
| Barium, Total | 96 | | 96 | | 82-117 | 0 | | 30 |
| Cadmium, Total | 94 | | 96 | | 82-118 | 2 | | 30 |
| Chromium, Total | 95 | | 97 | | 79-121 | 2 | | 30 |
| Lead, Total | 91 | | 93 | | 81-119 | 2 | | 30 |
| Selenium, Total | 96 | | 96 | | 78-123 | 0 | | 30 |
| Silver, Total | 102 | | 105 | | 74-125 | 3 | | 30 |

Matrix Spike Analysis

Batch Quality Control

Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1426293
Report Date: 11/10/14

| Parameter | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery | Qual | Recovery Limits | RPD | Qual | RPD Limits |
|--|---------------|----------|----------|--------------|------|-----------|---------------|------|-----------------|-----|------|------------|
| MCP Total Metals - Westborough Lab Associated sample(s): 03 QC Batch ID: WG737595-4 QC Sample: L1426293-03 Client ID: PE-17 | | | | | | | | | | | | |
| Mercury, Total | ND | 0.153 | 0.217 | 142 | Q | - | - | | 75-125 | - | | 35 |
| MCP Total Metals - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG737835-4 QC Sample: L1426293-03 Client ID: PE-17 | | | | | | | | | | | | |
| Arsenic, Total | 26 | 10.8 | 36 | 93 | | - | - | | 75-125 | - | | 35 |
| Barium, Total | 57 | 179 | 210 | 85 | | - | - | | 75-125 | - | | 35 |
| Cadmium, Total | ND | 4.58 | 3.6 | 79 | | - | - | | 75-125 | - | | 35 |
| Chromium, Total | 26 | 17.9 | 44 | 100 | | - | - | | 75-125 | - | | 35 |
| Lead, Total | 7.3 | 45.8 | 42 | 76 | | - | - | | 75-125 | - | | 35 |
| Selenium, Total | ND | 10.8 | 8.8 | 82 | | - | - | | 75-125 | - | | 35 |
| Silver, Total | ND | 26.9 | 25 | 93 | | - | - | | 75-125 | - | | 35 |

Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

**Lab Serial Dilution
Analysis
Batch Quality Control**

Lab Number: L1426293
Report Date: 11/10/14

| Parameter | Native Sample | Serial Dilution | Units | % D | Qual | RPD Limits |
|--|---------------|-----------------|-------|-----|------|------------|
| MCP Total Metals - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG737835-6 QC Sample: L1426293-03 Client ID: PE-17 | | | | | | |
| Arsenic, Total | 26 | 30 | mg/kg | 15 | Q | 10 |
| Barium, Total | 57 | 65 | mg/kg | 14 | Q | 10 |
| Chromium, Total | 26 | 32 | mg/kg | 23 | Q | 10 |

INORGANICS & MISCELLANEOUS

Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1426293**Project Number:** Not Specified**Report Date:** 11/10/14**SAMPLE RESULTS**

Lab ID: L1426293-01
 Client ID: PE-16
 Sample Location: WORCESTER, MA
 Matrix: Soil

Date Collected: 11/03/14 14:30
 Date Received: 11/03/14
 Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Solids, Total | 88.7 | | % | 0.100 | NA | 1 | - | 11/03/14 22:35 | 30,2540G | RT |



Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1426293
Report Date: 11/10/14

SAMPLE RESULTS

Lab ID: L1426293-02
Client ID: PE-217
Sample Location: WORCESTER, MA
Matrix: Soil

Date Collected: 11/03/14 14:33
Date Received: 11/03/14
Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Solids, Total | 88.8 | | % | 0.100 | NA | 1 | - | 11/03/14 22:35 | 30,2540G | RT |



Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1426293
Report Date: 11/10/14

SAMPLE RESULTS

Lab ID: L1426293-03
Client ID: PE-17
Sample Location: WORCESTER, MA
Matrix: Soil

Date Collected: 11/03/14 14:34
Date Received: 11/03/14
Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Solids, Total | 88.4 | | % | 0.100 | NA | 1 | - | 11/03/14 22:35 | 30,2540G | RT |



Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1426293
Report Date: 11/10/14

SAMPLE RESULTS

Lab ID: L1426293-04
Client ID: PE-18
Sample Location: WORCESTER, MA
Matrix: Soil

Date Collected: 11/03/14 14:39
Date Received: 11/03/14
Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Solids, Total | 86.4 | | % | 0.100 | NA | 1 | - | 11/03/14 22:35 | 30,2540G | RT |



Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1426293
Report Date: 11/10/14

SAMPLE RESULTS

Lab ID: L1426293-05
Client ID: PE-19
Sample Location: WORCESTER, MA
Matrix: Soil

Date Collected: 11/03/14 14:42
Date Received: 11/03/14
Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Solids, Total | 83.1 | | % | 0.100 | NA | 1 | - | 11/03/14 22:35 | 30,2540G | RT |



Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1426293
Report Date: 11/10/14

SAMPLE RESULTS

Lab ID: L1426293-06
Client ID: PE-20
Sample Location: WORCESTER, MA
Matrix: Soil

Date Collected: 11/03/14 14:47
Date Received: 11/03/14
Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Solids, Total | 89.1 | | % | 0.100 | NA | 1 | - | 11/03/14 22:35 | 30,2540G | RT |



Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1426293**Project Number:** Not Specified**Report Date:** 11/10/14**SAMPLE RESULTS**

Lab ID: L1426293-07
Client ID: PE-21
Sample Location: WORCESTER, MA
Matrix: Soil

Date Collected: 11/03/14 14:51
Date Received: 11/03/14
Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Solids, Total | 88.3 | | % | 0.100 | NA | 1 | - | 11/03/14 22:35 | 30,2540G | RT |



Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1426293
Report Date: 11/10/14

SAMPLE RESULTS

Lab ID: L1426293-08
Client ID: PE-22
Sample Location: WORCESTER, MA
Matrix: Soil

Date Collected: 11/03/14 14:55
Date Received: 11/03/14
Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Solids, Total | 88.6 | | % | 0.100 | NA | 1 | - | 11/03/14 22:35 | 30,2540G | RT |



Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1426293
Report Date: 11/10/14

SAMPLE RESULTS

Lab ID: L1426293-09
Client ID: PE-23
Sample Location: WORCESTER, MA
Matrix: Soil

Date Collected: 11/03/14 15:02
Date Received: 11/03/14
Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Solids, Total | 76.1 | | % | 0.100 | NA | 1 | - | 11/03/14 22:35 | 30,2540G | RT |



Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1426293
Report Date: 11/10/14

SAMPLE RESULTS

Lab ID: L1426293-10
Client ID: PE-24
Sample Location: WORCESTER, MA
Matrix: Soil

Date Collected: 11/03/14 15:05
Date Received: 11/03/14
Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Solids, Total | 89.2 | | % | 0.100 | NA | 1 | - | 11/03/14 22:35 | 30,2540G | RT |



Project Name: HOLY CROSS FIELDHOUSE**Project Number:** Not Specified**Lab Duplicate Analysis****Batch Quality Control****Lab Number:** L1426293**Report Date:** 11/10/14

| Parameter | Native Sample | Duplicate Sample | Units | RPD | Qual | RPD Limits |
|--|---------------|------------------|-------|-----|------|------------|
| General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG737147-1 QC Sample: L1426270-01 Client ID: DUP Sample | | | | | | |
| Solids, Total | 90.4 | 90.3 | % | 0 | | 20 |

Project Name: HOLY CROSS FIELDHOUSE**Project Number:** Not Specified**Lab Number:** L1426293**Report Date:** 11/10/14**Sample Receipt and Container Information**

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal**Cooler**

A Absent

Container Information

| Container ID | Container Type | Cooler | pH | Temp deg C | Pres | Seal | Analysis(*) |
|--------------|-------------------------|--------|-----|------------|------|--------|--|
| L1426293-01A | Amber 250ml unpreserved | A | N/A | 3.2 | Y | Absent | MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),TS(7),MCP-8082-10-3540C(365),MCP-AG-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180) |
| L1426293-02A | Amber 250ml unpreserved | A | N/A | 3.2 | Y | Absent | MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),TS(7),MCP-8082-10-3540C(365),MCP-AG-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180) |
| L1426293-03A | Amber 250ml unpreserved | A | N/A | 3.2 | Y | Absent | MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),TS(7),MCP-8082-10-3540C(365),MCP-AG-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180) |
| L1426293-04A | Amber 250ml unpreserved | A | N/A | 3.2 | Y | Absent | MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),TS(7),MCP-8082-10-3540C(365),MCP-AG-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180) |
| L1426293-05A | Amber 250ml unpreserved | A | N/A | 3.2 | Y | Absent | MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),TS(7),MCP-8082-10-3540C(365),MCP-AG-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180) |

*Values in parentheses indicate holding time in days



Project Name: HOLY CROSS FIELDHOUSE**Project Number:** Not Specified**Lab Number:** L1426293**Report Date:** 11/10/14**Container Information**

| Container ID | Container Type | Cooler | pH | Temp deg C | Pres | Seal | Analysis(*) |
|--------------|-------------------------|--------|-----|---------------|------|--------|--|
| L1426293-06A | Amber 250ml unpreserved | A | N/A | 3.2 | Y | Absent | MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),TS(7),MCP-8082-10-3540C(365),MCP-AG-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180) |
| L1426293-07A | Amber 250ml unpreserved | A | N/A | 3.2 | Y | Absent | MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),TS(7),MCP-8082-10-3540C(365),MCP-AG-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180) |
| L1426293-08A | Amber 250ml unpreserved | A | N/A | 3.2 | Y | Absent | MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),TS(7),MCP-8082-10-3540C(365),MCP-AG-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180) |
| L1426293-09A | Amber 250ml unpreserved | A | N/A | 3.2 | Y | Absent | MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),TS(7),MCP-8082-10-3540C(365),MCP-AG-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180) |
| L1426293-10A | Amber 250ml unpreserved | A | N/A | 3.2 | Y | Absent | MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),TS(7),MCP-8082-10-3540C(365),MCP-AG-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180) |

*Values in parentheses indicate holding time in days



Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1426293**Project Number:** Not Specified**Report Date:** 11/10/14

GLOSSARY

Acronyms

| | |
|------|---|
| EDL | - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME). |
| EPA | - Environmental Protection Agency. |
| LCS | - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes. |
| LCSD | - Laboratory Control Sample Duplicate: Refer to LCS. |
| LFB | - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes. |
| MDL | - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. |
| MS | - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. |
| MSD | - Matrix Spike Sample Duplicate: Refer to MS. |
| NA | - Not Applicable. |
| NC | - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit. |
| NI | - Not Ignitable. |
| RL | - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable. |
| RPD | - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report. |
| SRM | - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples. |

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

Report Format: Data Usability Report



Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1426293**Project Number:** Not Specified**Report Date:** 11/10/14**Data Qualifiers**

- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the reporting limit (RL) for the sample.

Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1426293
Report Date: 11/10/14

REFERENCES

- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.
- 97 EPA Test Methods (SW-846) with QC Requirements & Performance Standards for the Analysis of EPA SW-846 Methods under the Massachusetts Contingency Plan, WSC-CAM-IIA, IIB, IIIA, IIIB, IIIC, IIID, VA, VB, VC, VIA, VIB, VIIIA and VIIIB, July 2010.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

Last revised April 15, 2014

The following analytes are not included in our NELAP Scope of Accreditation:

Westborough Facility

EPA 524.2: Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.

EPA 8260C: 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide), Methyl methacrylate, Azobenzene.

EPA 8330A/B: PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT.

EPA 8270D: 1-Methylnaphthalene, Dimethylnaphthalene, 1,4-Diphenylhydrazine.

EPA 625: 4-Chloroaniline, 4-Methylphenol.

SM4500: Soil: Total Phosphorus, TKN, NO₂, NO₃.

EPA 9071: Total Petroleum Hydrocarbons, Oil & Grease.

Mansfield Facility

EPA 8270D: Biphenyl.

EPA 2540D: TSS

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water

EPA 200.8: Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, Tl; **EPA 200.7:** Ba, Be, Ca, Cd, Cr, Cu, Na; **EPA 245.1:** Mercury;

EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO₃-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**

EPA 332: Perchlorate.

Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.

Non-Potable Water

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, Tl, Zn;

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, Ti, Tl, V, Zn;

EPA 245.1, SM4500H-B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC,

SM426C, SM4500NH₃-BH, EPA 350.1: Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO₃-F,**

EPA 353.2: Nitrate-N, **SM4500NH₃-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4,**

SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.

EPA 624: Volatile Halocarbons & Aromatics,

EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF.

For a complete listing of analytes and methods, please contact your Alpha Project Manager.



WESTBORO, MA
TEL: 508-898-9220
FAX: 508-898-9193

MANSFIELD, MA
TEL: 508-822-9300
FAX: 508-822-3288

CHAIN OF CUSTODY

PAGE 1 OF 1

Project Information

Project Name: Holy Cross FieldhouseProject Location: Worcester MA

Project #:

Project Manager: Richard Gang

ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved)
Date Due: 11/10/14 Time:Date Rec'd in Lab: 11/3/14

Report Information - Data Deliverables

☐ FAX ☒ EMAIL
☒ ADEX ☐ Add'l Deliverables
ALPHA Job #: 61426293

Billing Information

☐ Same as Client info PO #:

Client Information

Client: Cooperstown EnvironmentalAddress: 23 Main Street
Andover MA 01810Phone: 978-505-8227

Fax:

Email: richard@cooperstownenv.com
☐ These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

If MS is required, indicate in Sample Specific Comments which samples and what tests MS to be performed.
(Note: All CAM methods for inorganic analyses require MS every 20 soil samples)

3500B/3540C of SN-846 Detect limit < 1 ppm

Regulatory Requirements/Report Limits

State /Fed Program MA MCP/EPA Criteria PCBs detect limit/ppm

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO

☒ Yes ☐ No Are MCP Analytical Methods Required?
☒ Yes ☐ No Is Matrix Spike (MS) Required on this SDG? (If yes see note in Comments)
☐ Yes ☒ No Are CT RCP (Reasonable Confidence Protocols) Required?

| ALPHA Lab ID (Lab Use Only) | Sample ID | Collection | | Sample Matrix | Sampler's Initials | ANALYSIS PCBs Soxhlet* PCRA 8 Metals | | | | | | | | | | SAMPLE HANDLING Filtration _____ <input type="checkbox"/> Done <input checked="" type="checkbox"/> Not needed <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please specify below) | | TOTAL # BOTTLES |
|--------------------------------|---------------|----------------|-------------|------------------|-----------------------|--|----------|--|--|--|--|--|--|--|--|--|-----------|-----------------------|
| | | Date | Time | | | | | | | | | | | | | | | |
| <u>26293-01</u> | <u>PE-16</u> | <u>11/3/14</u> | <u>2:30</u> | <u>S</u> | <u>AN</u> | <u>X</u> | <u>X</u> | | | | | | | | | | | <u>1</u> |
| <u>-02</u> | <u>PE-217</u> | | <u>2:33</u> | | | <u>X</u> | <u>X</u> | | | | | | | | | | | <u>1</u> |
| <u>-03</u> | <u>PE-17</u> | | <u>2:34</u> | | | <u>X</u> | <u>X</u> | | | | | | | | | | <u>MS</u> | <u>1</u> |
| <u>-04</u> | <u>PE-18</u> | | <u>2:39</u> | | | <u>X</u> | <u>X</u> | | | | | | | | | | | <u>1</u> |
| <u>-05</u> | <u>PE-19</u> | | <u>2:42</u> | | | <u>X</u> | <u>X</u> | | | | | | | | | | | <u>1</u> |
| <u>-06</u> | <u>PE-20</u> | | <u>2:47</u> | | | <u>X</u> | <u>X</u> | | | | | | | | | | | <u>1</u> |
| <u>-07</u> | <u>PE-21</u> | | <u>2:51</u> | | | <u>X</u> | <u>X</u> | | | | | | | | | | | <u>1</u> |
| <u>-08</u> | <u>PE-22</u> | | <u>2:55</u> | | | <u>X</u> | <u>X</u> | | | | | | | | | | | <u>1</u> |
| <u>-09</u> | <u>PE-23</u> | | <u>3:02</u> | | | <u>X</u> | <u>X</u> | | | | | | | | | | | <u>1</u> |
| <u>-10</u> | <u>PE-24</u> | | <u>3:05</u> | | | <u>X</u> | <u>X</u> | | | | | | | | | | | <u>1</u> |

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT
MA MCP or CT RCP?

FORM NO: 01-01 (rev. 18-Jan-2010)

Container Type G G
Preservative A A

Relinquished By:

Date/Time

Received By:

Date/Time

Anne Neumann 11/3/14 3:30p
J. Gang 11/3/14 16:15

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.



ANALYTICAL REPORT

| | |
|-----------------|---|
| Lab Number: | L1426132 |
| Client: | Cooperstown Environmental LLC 23 Main Street Andover, MA 01810-0814 |
| ATTN: | Richard Gang |
| Phone: | (978) 470-4755 |
| Project Name: | HOLY CROSS FIELDHOUSE |
| Project Number: | Not Specified |
| Report Date: | 11/10/14 |

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1426132
Report Date: 11/10/14

| Alpha Sample ID | Client ID | Matrix | Sample Location | Collection Date/Time | Receive Date |
|--------------------|---------------|--------|--------------------|-------------------------|--------------|
| L1426132-01 | PE-07 | SOIL | WORCESTER, MA | 10/30/14 15:16 | 10/31/14 |
| L1426132-02 | PE-08 | SOIL | WORCESTER, MA | 10/30/14 15:18 | 10/31/14 |
| L1426132-03 | PE-09 | SOIL | WORCESTER, MA | 10/30/14 15:20 | 10/31/14 |
| L1426132-04 | PE-10 | SOIL | WORCESTER, MA | 10/30/14 15:22 | 10/31/14 |
| L1426132-05 | CON-SOUTH | SOLID | WORCESTER, MA | 10/31/14 08:44 | 10/31/14 |
| L1426132-06 | PE-11 | SOIL | WORCESTER, MA | 10/31/14 09:43 | 10/31/14 |
| L1426132-07 | ONEIL CONDUIT | SOLID | WORCESTER, MA | 10/31/14 09:45 | 10/31/14 |
| L1426132-08 | PE-12 | SOIL | WORCESTER, MA | 10/31/14 09:59 | 10/31/14 |
| L1426132-09 | PE-13 | SOIL | WORCESTER, MA | 10/31/14 10:02 | 10/31/14 |
| L1426132-10 | PE-14 | SOIL | WORCESTER, MA | 10/31/14 11:19 | 10/31/14 |
| L1426132-11 | PE-15 | SOIL | WORCESTER, MA | 10/31/14 11:22 | 10/31/14 |
| L1426132-12 | CON-NORTH | SOLID | WORCESTER, MA | 10/31/14 11:23 | 10/31/14 |

Project Name: HOLY CROSS FIELDHOUSE

Lab Number: L1426132

Project Number: Not Specified

Report Date: 11/10/14

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

| | | |
|--|---|-----|
| An affirmative response to questions A through F is required for "Presumptive Certainty" status | | |
| A | Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times? | YES |
| B | Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed? | YES |
| C | Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances? | YES |
| D | Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?" | YES |
| E a. | VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). | N/A |
| E b. | APH and TO-15 Methods only: Was the complete analyte list reported for each method? | N/A |
| F | Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)? | YES |
| A response to questions G, H and I is required for "Presumptive Certainty" status | | |
| G | Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)? | YES |
| H | Were all QC performance standards specified in the CAM protocol(s) achieved? | NO |
| I | Were results reported for the complete analyte list specified in the selected CAM protocol(s)? | NO |
| For any questions answered "No", please refer to the case narrative section on the following page(s). | | |

Please note that sample matrix information is located in the Sample Results section of this report.



Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1426132
Report Date: 11/10/14

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1426132
Report Date: 11/10/14

Case Narrative (continued)

MCP Related Narratives

Sample Receipt

In reference to question H:

A Matrix Spike was not submitted for the analysis of Metals.

Metals

In reference to question H:

The WG737436-3 LCSD recoveries, associated with L1426132-01 through -12, are outside the acceptance criteria for cadmium (159%) and selenium (141%). Re-analysis of the LCSD yielded an unacceptable recovery for cadmium (159%) and selenium (141%). The LCS recovery was within acceptance criteria for these analytes; therefore, no further action was taken.


The WG737436-2/-3 LCS/LCSD RPDs, associated with L1426132-01 through -12, are above the acceptance criteria for cadmium (47%) and selenium (38%).

In reference to question I:

All samples were analyzed for a subset of MCP elements per the Chain of Custody.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

 Michelle M. Morris

Title: Technical Director/Representative

Date: 11/10/14

ORGANICS

PCBS

Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1426132
Report Date: 11/10/14

SAMPLE RESULTS

Lab ID: L1426132-01
Client ID: PE-07
Sample Location: WORCESTER, MA
Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 11/07/14 18:55
Analyst: JT
Percent Solids: 86%

Date Collected: 10/30/14 15:16
Date Received: 10/31/14
Field Prep: Not Specified
Extraction Method: EPA 3540C
Extraction Date: 11/04/14 17:02
Cleanup Method: EPA 3665A
Cleanup Date: 11/06/14
Cleanup Method: EPA 3660B
Cleanup Date: 11/06/14

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|-------|------|-----|-----------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 38.4 | -- | 1 | A |
| Aroclor 1221 | ND | | ug/kg | 38.4 | -- | 1 | A |
| Aroclor 1232 | ND | | ug/kg | 38.4 | -- | 1 | A |
| Aroclor 1242 | ND | | ug/kg | 38.4 | -- | 1 | A |
| Aroclor 1248 | ND | | ug/kg | 38.4 | -- | 1 | A |
| Aroclor 1254 | ND | | ug/kg | 38.4 | -- | 1 | A |
| Aroclor 1260 | ND | | ug/kg | 38.4 | -- | 1 | A |
| Aroclor 1262 | ND | | ug/kg | 38.4 | -- | 1 | A |
| Aroclor 1268 | ND | | ug/kg | 38.4 | -- | 1 | A |
| PCBs, Total | ND | | ug/kg | 38.4 | -- | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 63 | | 30-150 | A |
| Decachlorobiphenyl | 44 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 73 | | 30-150 | B |
| Decachlorobiphenyl | 51 | | 30-150 | B |

Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1426132
Report Date: 11/10/14

SAMPLE RESULTS

Lab ID: L1426132-02
Client ID: PE-08
Sample Location: WORCESTER, MA
Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 11/07/14 19:07
Analyst: JT
Percent Solids: 75%

Date Collected: 10/30/14 15:18
Date Received: 10/31/14
Field Prep: Not Specified
Extraction Method: EPA 3540C
Extraction Date: 11/04/14 17:02
Cleanup Method: EPA 3665A
Cleanup Date: 11/06/14
Cleanup Method: EPA 3660B
Cleanup Date: 11/06/14

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|-------|------|-----|-----------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 44.1 | -- | 1 | A |
| Aroclor 1221 | ND | | ug/kg | 44.1 | -- | 1 | A |
| Aroclor 1232 | ND | | ug/kg | 44.1 | -- | 1 | A |
| Aroclor 1242 | ND | | ug/kg | 44.1 | -- | 1 | A |
| Aroclor 1248 | ND | | ug/kg | 44.1 | -- | 1 | A |
| Aroclor 1254 | ND | | ug/kg | 44.1 | -- | 1 | A |
| Aroclor 1260 | ND | | ug/kg | 44.1 | -- | 1 | A |
| Aroclor 1262 | ND | | ug/kg | 44.1 | -- | 1 | A |
| Aroclor 1268 | ND | | ug/kg | 44.1 | -- | 1 | A |
| PCBs, Total | ND | | ug/kg | 44.1 | -- | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 42 | | 30-150 | A |
| Decachlorobiphenyl | 30 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 51 | | 30-150 | B |
| Decachlorobiphenyl | 35 | | 30-150 | B |

Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1426132
Report Date: 11/10/14

SAMPLE RESULTS

Lab ID: L1426132-03
 Client ID: PE-09
 Sample Location: WORCESTER, MA
 Matrix: Soil
 Analytical Method: 97,8082A
 Analytical Date: 11/07/14 19:19
 Analyst: JT
 Percent Solids: 86%

Date Collected: 10/30/14 15:20
 Date Received: 10/31/14
 Field Prep: Not Specified
 Extraction Method: EPA 3540C
 Extraction Date: 11/04/14 17:02
 Cleanup Method: EPA 3665A
 Cleanup Date: 11/06/14
 Cleanup Method: EPA 3660B
 Cleanup Date: 11/06/14

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|-------|------|-----|-----------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 38.0 | -- | 1 | A |
| Aroclor 1221 | ND | | ug/kg | 38.0 | -- | 1 | A |
| Aroclor 1232 | ND | | ug/kg | 38.0 | -- | 1 | A |
| Aroclor 1242 | ND | | ug/kg | 38.0 | -- | 1 | A |
| Aroclor 1248 | ND | | ug/kg | 38.0 | -- | 1 | A |
| Aroclor 1254 | ND | | ug/kg | 38.0 | -- | 1 | A |
| Aroclor 1260 | ND | | ug/kg | 38.0 | -- | 1 | A |
| Aroclor 1262 | ND | | ug/kg | 38.0 | -- | 1 | A |
| Aroclor 1268 | ND | | ug/kg | 38.0 | -- | 1 | A |
| PCBs, Total | ND | | ug/kg | 38.0 | -- | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 63 | | 30-150 | A |
| Decachlorobiphenyl | 45 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 77 | | 30-150 | B |
| Decachlorobiphenyl | 53 | | 30-150 | B |

Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1426132
Report Date: 11/10/14

SAMPLE RESULTS

Lab ID: L1426132-04
Client ID: PE-10
Sample Location: WORCESTER, MA
Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 11/07/14 19:32
Analyst: JT
Percent Solids: 88%

Date Collected: 10/30/14 15:22
Date Received: 10/31/14
Field Prep: Not Specified
Extraction Method: EPA 3540C
Extraction Date: 11/04/14 17:02
Cleanup Method: EPA 3665A
Cleanup Date: 11/06/14
Cleanup Method: EPA 3660B
Cleanup Date: 11/06/14

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|-------|------|-----|-----------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 37.1 | -- | 1 | A |
| Aroclor 1221 | ND | | ug/kg | 37.1 | -- | 1 | A |
| Aroclor 1232 | ND | | ug/kg | 37.1 | -- | 1 | A |
| Aroclor 1242 | ND | | ug/kg | 37.1 | -- | 1 | A |
| Aroclor 1248 | ND | | ug/kg | 37.1 | -- | 1 | A |
| Aroclor 1254 | ND | | ug/kg | 37.1 | -- | 1 | A |
| Aroclor 1260 | ND | | ug/kg | 37.1 | -- | 1 | A |
| Aroclor 1262 | ND | | ug/kg | 37.1 | -- | 1 | A |
| Aroclor 1268 | ND | | ug/kg | 37.1 | -- | 1 | A |
| PCBs, Total | ND | | ug/kg | 37.1 | -- | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 65 | | 30-150 | A |
| Decachlorobiphenyl | 47 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 79 | | 30-150 | B |
| Decachlorobiphenyl | 55 | | 30-150 | B |

Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1426132
Report Date: 11/10/14

SAMPLE RESULTS

Lab ID: L1426132-05
Client ID: CON-SOUTH
Sample Location: WORCESTER, MA
Matrix: Solid
Analytical Method: 97,8082A
Analytical Date: 11/07/14 12:19
Analyst: JT
Percent Solids: 96%

Date Collected: 10/31/14 08:44
Date Received: 10/31/14
Field Prep: Not Specified
Extraction Method: EPA 3540C
Extraction Date: 11/04/14 21:00
Cleanup Method: EPA 3665A
Cleanup Date: 11/06/14
Cleanup Method: EPA 3660B
Cleanup Date: 11/06/14

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|-------|------|-----|-----------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 61.0 | -- | 1 | A |
| Aroclor 1221 | ND | | ug/kg | 61.0 | -- | 1 | A |
| Aroclor 1232 | ND | | ug/kg | 61.0 | -- | 1 | A |
| Aroclor 1242 | ND | | ug/kg | 61.0 | -- | 1 | A |
| Aroclor 1248 | ND | | ug/kg | 40.7 | -- | 1 | A |
| Aroclor 1254 | ND | | ug/kg | 61.0 | -- | 1 | B |
| Aroclor 1260 | ND | | ug/kg | 40.7 | -- | 1 | A |
| Aroclor 1262 | ND | | ug/kg | 20.3 | -- | 1 | A |
| Aroclor 1268 | ND | | ug/kg | 20.3 | -- | 1 | A |
| PCBs, Total | ND | | ug/kg | 20.3 | -- | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 74 | | 30-150 | A |
| Decachlorobiphenyl | 103 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 75 | | 30-150 | B |
| Decachlorobiphenyl | 111 | | 30-150 | B |

Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1426132
Report Date: 11/10/14

SAMPLE RESULTS

Lab ID: L1426132-06
Client ID: PE-11
Sample Location: WORCESTER, MA
Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 11/07/14 19:44
Analyst: JT
Percent Solids: 89%

Date Collected: 10/31/14 09:43
Date Received: 10/31/14
Field Prep: Not Specified
Extraction Method: EPA 3540C
Extraction Date: 11/04/14 19:00
Cleanup Method: EPA 3665A
Cleanup Date: 11/06/14
Cleanup Method: EPA 3660B
Cleanup Date: 11/06/14

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|-------|------|-----|-----------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 36.7 | -- | 1 | A |
| Aroclor 1221 | ND | | ug/kg | 36.7 | -- | 1 | A |
| Aroclor 1232 | ND | | ug/kg | 36.7 | -- | 1 | A |
| Aroclor 1242 | ND | | ug/kg | 36.7 | -- | 1 | A |
| Aroclor 1248 | ND | | ug/kg | 36.7 | -- | 1 | A |
| Aroclor 1254 | ND | | ug/kg | 36.7 | -- | 1 | A |
| Aroclor 1260 | ND | | ug/kg | 36.7 | -- | 1 | A |
| Aroclor 1262 | ND | | ug/kg | 36.7 | -- | 1 | A |
| Aroclor 1268 | ND | | ug/kg | 36.7 | -- | 1 | A |
| PCBs, Total | ND | | ug/kg | 36.7 | -- | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 59 | | 30-150 | A |
| Decachlorobiphenyl | 45 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 71 | | 30-150 | B |
| Decachlorobiphenyl | 50 | | 30-150 | B |

Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1426132
Report Date: 11/10/14

SAMPLE RESULTS

Lab ID: L1426132-07
Client ID: ONEIL CONDUIT
Sample Location: WORCESTER, MA
Matrix: Solid
Analytical Method: 97,8082A
Analytical Date: 11/07/14 12:35
Analyst: JT
Percent Solids: 90%

Date Collected: 10/31/14 09:45
Date Received: 10/31/14
Field Prep: Not Specified
Extraction Method: EPA 3540C
Extraction Date: 11/04/14 21:00
Cleanup Method: EPA 3665A
Cleanup Date: 11/06/14
Cleanup Method: EPA 3660B
Cleanup Date: 11/06/14

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|-------|------|-----|-----------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 62.7 | -- | 1 | A |
| Aroclor 1221 | ND | | ug/kg | 62.7 | -- | 1 | A |
| Aroclor 1232 | ND | | ug/kg | 62.7 | -- | 1 | A |
| Aroclor 1242 | ND | | ug/kg | 62.7 | -- | 1 | A |
| Aroclor 1248 | ND | | ug/kg | 41.8 | -- | 1 | A |
| Aroclor 1254 | ND | | ug/kg | 62.7 | -- | 1 | B |
| Aroclor 1260 | ND | | ug/kg | 41.8 | -- | 1 | A |
| Aroclor 1262 | ND | | ug/kg | 20.9 | -- | 1 | A |
| Aroclor 1268 | ND | | ug/kg | 20.9 | -- | 1 | A |
| PCBs, Total | ND | | ug/kg | 20.9 | -- | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 44 | | 30-150 | A |
| Decachlorobiphenyl | 56 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 47 | | 30-150 | B |
| Decachlorobiphenyl | 61 | | 30-150 | B |

Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1426132
Report Date: 11/10/14

SAMPLE RESULTS

Lab ID: L1426132-08
Client ID: PE-12
Sample Location: WORCESTER, MA
Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 11/07/14 19:57
Analyst: JT
Percent Solids: 89%

Date Collected: 10/31/14 09:59
Date Received: 10/31/14
Field Prep: Not Specified
Extraction Method: EPA 3540C
Extraction Date: 11/04/14 19:00
Cleanup Method: EPA 3665A
Cleanup Date: 11/06/14
Cleanup Method: EPA 3660B
Cleanup Date: 11/06/14

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|-------|------|-----|-----------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 36.4 | -- | 1 | A |
| Aroclor 1221 | ND | | ug/kg | 36.4 | -- | 1 | A |
| Aroclor 1232 | ND | | ug/kg | 36.4 | -- | 1 | A |
| Aroclor 1242 | ND | | ug/kg | 36.4 | -- | 1 | A |
| Aroclor 1248 | ND | | ug/kg | 36.4 | -- | 1 | A |
| Aroclor 1254 | ND | | ug/kg | 36.4 | -- | 1 | A |
| Aroclor 1260 | ND | | ug/kg | 36.4 | -- | 1 | A |
| Aroclor 1262 | ND | | ug/kg | 36.4 | -- | 1 | A |
| Aroclor 1268 | ND | | ug/kg | 36.4 | -- | 1 | A |
| PCBs, Total | ND | | ug/kg | 36.4 | -- | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 69 | | 30-150 | A |
| Decachlorobiphenyl | 52 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 82 | | 30-150 | B |
| Decachlorobiphenyl | 57 | | 30-150 | B |

Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1426132
Report Date: 11/10/14

SAMPLE RESULTS

Lab ID: L1426132-09
Client ID: PE-13
Sample Location: WORCESTER, MA
Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 11/07/14 20:09
Analyst: JT
Percent Solids: 90%

Date Collected: 10/31/14 10:02
Date Received: 10/31/14
Field Prep: Not Specified
Extraction Method: EPA 3540C
Extraction Date: 11/04/14 19:00
Cleanup Method: EPA 3665A
Cleanup Date: 11/06/14
Cleanup Method: EPA 3660B
Cleanup Date: 11/06/14

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|-------|------|-----|-----------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 36.3 | -- | 1 | A |
| Aroclor 1221 | ND | | ug/kg | 36.3 | -- | 1 | A |
| Aroclor 1232 | ND | | ug/kg | 36.3 | -- | 1 | A |
| Aroclor 1242 | ND | | ug/kg | 36.3 | -- | 1 | A |
| Aroclor 1248 | ND | | ug/kg | 36.3 | -- | 1 | A |
| Aroclor 1254 | ND | | ug/kg | 36.3 | -- | 1 | A |
| Aroclor 1260 | ND | | ug/kg | 36.3 | -- | 1 | A |
| Aroclor 1262 | ND | | ug/kg | 36.3 | -- | 1 | A |
| Aroclor 1268 | ND | | ug/kg | 36.3 | -- | 1 | A |
| PCBs, Total | ND | | ug/kg | 36.3 | -- | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 56 | | 30-150 | A |
| Decachlorobiphenyl | 44 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 67 | | 30-150 | B |
| Decachlorobiphenyl | 48 | | 30-150 | B |

Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1426132
Report Date: 11/10/14

SAMPLE RESULTS

Lab ID: L1426132-10
Client ID: PE-14
Sample Location: WORCESTER, MA
Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 11/07/14 20:21
Analyst: JT
Percent Solids: 90%

Date Collected: 10/31/14 11:19
Date Received: 10/31/14
Field Prep: Not Specified
Extraction Method: EPA 3540C
Extraction Date: 11/04/14 19:00
Cleanup Method: EPA 3665A
Cleanup Date: 11/06/14
Cleanup Method: EPA 3660B
Cleanup Date: 11/06/14

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|-------|------|-----|-----------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 36.1 | -- | 1 | A |
| Aroclor 1221 | ND | | ug/kg | 36.1 | -- | 1 | A |
| Aroclor 1232 | ND | | ug/kg | 36.1 | -- | 1 | A |
| Aroclor 1242 | ND | | ug/kg | 36.1 | -- | 1 | A |
| Aroclor 1248 | ND | | ug/kg | 36.1 | -- | 1 | A |
| Aroclor 1254 | ND | | ug/kg | 36.1 | -- | 1 | A |
| Aroclor 1260 | ND | | ug/kg | 36.1 | -- | 1 | A |
| Aroclor 1262 | ND | | ug/kg | 36.1 | -- | 1 | A |
| Aroclor 1268 | ND | | ug/kg | 36.1 | -- | 1 | A |
| PCBs, Total | ND | | ug/kg | 36.1 | -- | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 63 | | 30-150 | A |
| Decachlorobiphenyl | 51 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 76 | | 30-150 | B |
| Decachlorobiphenyl | 55 | | 30-150 | B |

Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1426132
Report Date: 11/10/14

SAMPLE RESULTS

Lab ID: L1426132-11
Client ID: PE-15
Sample Location: WORCESTER, MA
Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 11/06/14 13:46
Analyst: JT
Percent Solids: 90%

Date Collected: 10/31/14 11:22
Date Received: 10/31/14
Field Prep: Not Specified
Extraction Method: EPA 3540C
Extraction Date: 11/04/14 19:00
Cleanup Method: EPA 3665A
Cleanup Date: 11/05/14
Cleanup Method: EPA 3660B
Cleanup Date: 11/05/14

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|-------|------|-----|-----------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 36.2 | -- | 1 | A |
| Aroclor 1221 | ND | | ug/kg | 36.2 | -- | 1 | A |
| Aroclor 1232 | ND | | ug/kg | 36.2 | -- | 1 | A |
| Aroclor 1242 | ND | | ug/kg | 36.2 | -- | 1 | A |
| Aroclor 1248 | ND | | ug/kg | 36.2 | -- | 1 | A |
| Aroclor 1254 | ND | | ug/kg | 36.2 | -- | 1 | A |
| Aroclor 1260 | ND | | ug/kg | 36.2 | -- | 1 | A |
| Aroclor 1262 | ND | | ug/kg | 36.2 | -- | 1 | A |
| Aroclor 1268 | ND | | ug/kg | 36.2 | -- | 1 | A |
| PCBs, Total | ND | | ug/kg | 36.2 | -- | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 91 | | 30-150 | A |
| Decachlorobiphenyl | 89 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 92 | | 30-150 | B |
| Decachlorobiphenyl | 101 | | 30-150 | B |

Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1426132
Report Date: 11/10/14

SAMPLE RESULTS

Lab ID: L1426132-12
Client ID: CON-NORTH
Sample Location: WORCESTER, MA
Matrix: Solid
Analytical Method: 97,8082A
Analytical Date: 11/07/14 13:09
Analyst: JT
Percent Solids: 93%

Date Collected: 10/31/14 11:23
Date Received: 10/31/14
Field Prep: Not Specified
Extraction Method: EPA 3540C
Extraction Date: 11/04/14 21:00
Cleanup Method: EPA 3665A
Cleanup Date: 11/06/14
Cleanup Method: EPA 3660B
Cleanup Date: 11/06/14

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|-------|------|-----|-----------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 61.8 | -- | 1 | A |
| Aroclor 1221 | ND | | ug/kg | 61.8 | -- | 1 | A |
| Aroclor 1232 | ND | | ug/kg | 61.8 | -- | 1 | A |
| Aroclor 1242 | ND | | ug/kg | 61.8 | -- | 1 | A |
| Aroclor 1248 | ND | | ug/kg | 41.2 | -- | 1 | A |
| Aroclor 1254 | ND | | ug/kg | 61.8 | -- | 1 | B |
| Aroclor 1260 | ND | | ug/kg | 41.2 | -- | 1 | A |
| Aroclor 1262 | ND | | ug/kg | 20.6 | -- | 1 | A |
| Aroclor 1268 | ND | | ug/kg | 20.6 | -- | 1 | A |
| PCBs, Total | ND | | ug/kg | 20.6 | -- | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 55 | | 30-150 | A |
| Decachlorobiphenyl | 85 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 55 | | 30-150 | B |
| Decachlorobiphenyl | 86 | | 30-150 | B |

Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1426132**Project Number:** Not Specified**Report Date:** 11/10/14

Method Blank Analysis Batch Quality Control

Analytical Method: 97,8082A
 Analytical Date: 11/06/14 13:59
 Analyst: JT

Extraction Method: EPA 3540C
 Extraction Date: 11/04/14 17:02
 Cleanup Method: EPA 3665A
 Cleanup Date: 11/05/14
 Cleanup Method: EPA 3660B
 Cleanup Date: 11/05/14

| Parameter | Result | Qualifier | Units | RL | MDL | Column |
|---|--------|-----------|-------|------|-----|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab for sample(s): 01-04,06,08-11 Batch: WG737487-1 | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 33.1 | -- | A |
| Aroclor 1221 | ND | | ug/kg | 33.1 | -- | A |
| Aroclor 1232 | ND | | ug/kg | 33.1 | -- | A |
| Aroclor 1242 | ND | | ug/kg | 33.1 | -- | A |
| Aroclor 1248 | ND | | ug/kg | 33.1 | -- | A |
| Aroclor 1254 | ND | | ug/kg | 33.1 | -- | A |
| Aroclor 1260 | ND | | ug/kg | 33.1 | -- | A |
| Aroclor 1262 | ND | | ug/kg | 33.1 | -- | A |
| Aroclor 1268 | ND | | ug/kg | 33.1 | -- | A |
| PCBs, Total | ND | | ug/kg | 33.1 | -- | A |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|-----------|-----------|------------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 85 | | 30-150 | A |
| Decachlorobiphenyl | 83 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 84 | | 30-150 | B |
| Decachlorobiphenyl | 91 | | 30-150 | B |

Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1426132**Project Number:** Not Specified**Report Date:** 11/10/14

Method Blank Analysis Batch Quality Control

Analytical Method: 97,8082A
 Analytical Date: 11/07/14 13:25
 Analyst: JT

Extraction Method: EPA 3540C
 Extraction Date: 11/04/14 21:00
 Cleanup Method: EPA 3665A
 Cleanup Date: 11/06/14
 Cleanup Method: EPA 3660B
 Cleanup Date: 11/06/14

| Parameter | Result | Qualifier | Units | RL | MDL | Column |
|---|--------|-----------|-------|------|-----|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab for sample(s): 05,07,12 Batch: WG737529-1 | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 58.8 | -- | A |
| Aroclor 1221 | ND | | ug/kg | 58.8 | -- | A |
| Aroclor 1232 | ND | | ug/kg | 58.8 | -- | A |
| Aroclor 1242 | ND | | ug/kg | 58.8 | -- | A |
| Aroclor 1248 | ND | | ug/kg | 39.2 | -- | A |
| Aroclor 1260 | ND | | ug/kg | 39.2 | -- | A |
| Aroclor 1262 | ND | | ug/kg | 19.6 | -- | A |
| Aroclor 1268 | ND | | ug/kg | 19.6 | -- | A |
| PCBs, Total | ND | | ug/kg | 19.6 | -- | A |
| Aroclor 1254 | ND | | ug/kg | 58.8 | -- | B |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|-----------|-----------|------------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 71 | | 30-150 | A |
| Decachlorobiphenyl | 81 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 78 | | 30-150 | B |
| Decachlorobiphenyl | 92 | | 30-150 | B |

Matrix Spike Analysis

Batch Quality Control

Project Name: HOLY CROSS FIELDHOUSE

Lab Number: L1426132

Project Number: Not Specified

Report Date: 11/10/14

| <i>Parameter</i> | <i>Native Sample</i> | <i>MS Added</i> | <i>MS Found</i> | <i>MS %Recovery</i> | <i>Qual</i> | <i>MSD Found</i> | <i>MSD %Recovery</i> | <i>Qual</i> | <i>Recovery Limits</i> | <i>RPD</i> | <i>Qual</i> | <i>RPD Limits</i> | <i>Column</i> |
|---|----------------------|-----------------|-----------------|---------------------|-------------|------------------|----------------------|-------------|------------------------|------------|-------------|-------------------|---------------|
| MCP Polychlorinated Biphenyls - Westborough Lab Associated sample(s): 01-04,06,08-11 QC Batch ID: WG737487-4 QC Sample: L1426293-03 Client ID: MS Sample | | | | | | | | | | | | | |
| Aroclor 1016 | ND | 234 | 139 | 59 | | - | - | | 40-140 | - | | 30 | A |
| Aroclor 1260 | ND | 234 | 279 | 57 | | - | - | | 40-140 | - | | 30 | A |

| <i>Surrogate</i> | <i>MS % Recovery</i> | <i>Qualifier</i> | <i>MSD % Recovery</i> | <i>Qualifier</i> | <i>Acceptance Criteria</i> | <i>Column</i> |
|------------------------------|----------------------|------------------|-----------------------|------------------|----------------------------|---------------|
| 2,4,5,6-Tetrachloro-m-xylene | 54 | | | | 30-150 | A |
| Decachlorobiphenyl | 41 | | | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 65 | | | | 30-150 | B |
| Decachlorobiphenyl | 48 | | | | 30-150 | B |

Lab Control Sample Analysis**Batch Quality Control****Project Name:** HOLY CROSS FIELDHOUSE**Project Number:** Not Specified**Lab Number:** L1426132**Report Date:** 11/10/14

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits | Column |
|---|--------------------------|-------------|---------------------------|-------------|-----------------------------|------------|-------------|-----------------------|---------------|
| MCP Polychlorinated Biphenyls - Westborough Lab Associated sample(s): 01-04,06,08-11 Batch: WG737487-2 WG737487-3 | | | | | | | | | |
| Aroclor 1016 | 89 | | 92 | | 40-140 | 3 | | 30 | A |
| Aroclor 1260 | 90 | | 90 | | 40-140 | 0 | | 30 | A |

| Surrogate | LCS %Recovery | Qual | LCSD %Recovery | Qual | Acceptance Criteria | Column |
|------------------------------|--------------------------|-------------|---------------------------|-------------|--------------------------------|---------------|
| 2,4,5,6-Tetrachloro-m-xylene | 91 | | 95 | | 30-150 | A |
| Decachlorobiphenyl | 91 | | 94 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 90 | | 94 | | 30-150 | B |
| Decachlorobiphenyl | 99 | | 101 | | 30-150 | B |

Lab Control Sample Analysis**Batch Quality Control****Project Name:** HOLY CROSS FIELDHOUSE**Project Number:** Not Specified**Lab Number:** L1426132**Report Date:** 11/10/14

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits | Column |
|---|--------------------------|-------------|---------------------------|-------------|-----------------------------|------------|-------------|-----------------------|---------------|
| MCP Polychlorinated Biphenyls - Westborough Lab Associated sample(s): 05,07,12 Batch: WG737529-2 WG737529-3 | | | | | | | | | |
| Aroclor 1016 | 71 | | 67 | | 40-140 | 6 | | 30 | A |
| Aroclor 1260 | 77 | | 74 | | 40-140 | 4 | | 30 | A |

| Surrogate | LCS %Recovery | Qual | LCSD %Recovery | Qual | Acceptance Criteria | Column |
|------------------------------|--------------------------|-------------|---------------------------|-------------|--------------------------------|---------------|
| 2,4,5,6-Tetrachloro-m-xylene | 77 | | 71 | | 30-150 | A |
| Decachlorobiphenyl | 87 | | 83 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 84 | | 75 | | 30-150 | B |
| Decachlorobiphenyl | 97 | | 91 | | 30-150 | B |

METALS

Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1426132**Project Number:** Not Specified**Report Date:** 11/10/14**SAMPLE RESULTS****Lab ID:** L1426132-01**Date Collected:** 10/30/14 15:16**Client ID:** PE-07**Date Received:** 10/31/14**Sample Location:** WORCESTER, MA**Field Prep:** Not Specified**Matrix:** Soil**Percent Solids:** 86%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|------------------------------------|--------|-----------|-------|-------|-----|-----------------|----------------|----------------|-------------|-------------------|---------|
| MCP Total Metals - Westborough Lab | | | | | | | | | | | |
| Arsenic, Total | 20 | | mg/kg | 0.45 | -- | 1 | 11/04/14 15:38 | 11/06/14 18:41 | EPA 3050B | 97,6010C | MG |
| Barium, Total | 37 | | mg/kg | 0.45 | -- | 1 | 11/04/14 15:38 | 11/06/14 18:41 | EPA 3050B | 97,6010C | MG |
| Cadmium, Total | ND | | mg/kg | 0.45 | -- | 1 | 11/04/14 15:38 | 11/06/14 18:41 | EPA 3050B | 97,6010C | MG |
| Chromium, Total | 21 | | mg/kg | 0.45 | -- | 1 | 11/04/14 15:38 | 11/06/14 18:41 | EPA 3050B | 97,6010C | MG |
| Lead, Total | 7.2 | | mg/kg | 2.3 | -- | 1 | 11/04/14 15:38 | 11/06/14 18:41 | EPA 3050B | 97,6010C | MG |
| Mercury, Total | ND | | mg/kg | 0.092 | -- | 1 | 11/04/14 08:30 | 11/04/14 13:32 | EPA 7471B | 97,7471B | MC |
| Selenium, Total | ND | | mg/kg | 2.3 | -- | 1 | 11/04/14 15:38 | 11/06/14 18:41 | EPA 3050B | 97,6010C | MG |
| Silver, Total | ND | | mg/kg | 0.45 | -- | 1 | 11/04/14 15:38 | 11/06/14 18:41 | EPA 3050B | 97,6010C | MG |



Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1426132**Project Number:** Not Specified**Report Date:** 11/10/14**SAMPLE RESULTS**

Lab ID: L1426132-02

Date Collected: 10/30/14 15:18

Client ID: PE-08

Date Received: 10/31/14

Sample Location: WORCESTER, MA

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 75%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|------------------------------------|--------|-----------|-------|------|-----|-----------------|----------------|----------------|-------------|-------------------|---------|
| MCP Total Metals - Westborough Lab | | | | | | | | | | | |
| Arsenic, Total | 18 | | mg/kg | 0.53 | -- | 1 | 11/04/14 15:38 | 11/06/14 19:19 | EPA 3050B | 97,6010C | MG |
| Barium, Total | 51 | | mg/kg | 0.53 | -- | 1 | 11/04/14 15:38 | 11/06/14 19:19 | EPA 3050B | 97,6010C | MG |
| Cadmium, Total | ND | | mg/kg | 0.53 | -- | 1 | 11/04/14 15:38 | 11/06/14 19:19 | EPA 3050B | 97,6010C | MG |
| Chromium, Total | 26 | | mg/kg | 0.53 | -- | 1 | 11/04/14 15:38 | 11/06/14 19:19 | EPA 3050B | 97,6010C | MG |
| Lead, Total | 10 | | mg/kg | 2.6 | -- | 1 | 11/04/14 15:38 | 11/06/14 19:19 | EPA 3050B | 97,6010C | MG |
| Mercury, Total | ND | | mg/kg | 0.10 | -- | 1 | 11/04/14 08:30 | 11/04/14 13:33 | EPA 7471B | 97,7471B | MC |
| Selenium, Total | ND | | mg/kg | 2.6 | -- | 1 | 11/04/14 15:38 | 11/06/14 19:19 | EPA 3050B | 97,6010C | MG |
| Silver, Total | ND | | mg/kg | 0.53 | -- | 1 | 11/04/14 15:38 | 11/06/14 19:19 | EPA 3050B | 97,6010C | MG |



Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1426132**Project Number:** Not Specified**Report Date:** 11/10/14**SAMPLE RESULTS**

Lab ID: L1426132-03

Date Collected: 10/30/14 15:20

Client ID: PE-09

Date Received: 10/31/14

Sample Location: WORCESTER, MA

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 86%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|------------------------------------|--------|-----------|-------|-------|-----|-----------------|----------------|----------------|-------------|-------------------|---------|
| MCP Total Metals - Westborough Lab | | | | | | | | | | | |
| Arsenic, Total | 19 | | mg/kg | 0.44 | -- | 1 | 11/04/14 15:38 | 11/06/14 19:23 | EPA 3050B | 97,6010C | MG |
| Barium, Total | 48 | | mg/kg | 0.44 | -- | 1 | 11/04/14 15:38 | 11/06/14 19:23 | EPA 3050B | 97,6010C | MG |
| Cadmium, Total | ND | | mg/kg | 0.44 | -- | 1 | 11/04/14 15:38 | 11/06/14 19:23 | EPA 3050B | 97,6010C | MG |
| Chromium, Total | 20 | | mg/kg | 0.44 | -- | 1 | 11/04/14 15:38 | 11/06/14 19:23 | EPA 3050B | 97,6010C | MG |
| Lead, Total | 6.4 | | mg/kg | 2.2 | -- | 1 | 11/04/14 15:38 | 11/06/14 19:23 | EPA 3050B | 97,6010C | MG |
| Mercury, Total | ND | | mg/kg | 0.081 | -- | 1 | 11/04/14 08:30 | 11/04/14 13:35 | EPA 7471B | 97,7471B | MC |
| Selenium, Total | ND | | mg/kg | 2.2 | -- | 1 | 11/04/14 15:38 | 11/06/14 19:23 | EPA 3050B | 97,6010C | MG |
| Silver, Total | ND | | mg/kg | 0.44 | -- | 1 | 11/04/14 15:38 | 11/06/14 19:23 | EPA 3050B | 97,6010C | MG |



Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1426132**Project Number:** Not Specified**Report Date:** 11/10/14**SAMPLE RESULTS**

Lab ID: L1426132-04

Date Collected: 10/30/14 15:22

Client ID: PE-10

Date Received: 10/31/14

Sample Location: WORCESTER, MA

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 88%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|-----------|--------|-----------|-------|----|-----|-----------------|---------------|---------------|-------------|-------------------|---------|
|-----------|--------|-----------|-------|----|-----|-----------------|---------------|---------------|-------------|-------------------|---------|

MCP Total Metals - Westborough Lab

| | | | | | | | | | | | |
|-----------------|-----|--|-------|-------|----|---|----------------|----------------|-----------|----------|----|
| Arsenic, Total | 24 | | mg/kg | 0.45 | -- | 1 | 11/04/14 15:38 | 11/06/14 19:27 | EPA 3050B | 97,6010C | MG |
| Barium, Total | 52 | | mg/kg | 0.45 | -- | 1 | 11/04/14 15:38 | 11/06/14 19:27 | EPA 3050B | 97,6010C | MG |
| Cadmium, Total | ND | | mg/kg | 0.45 | -- | 1 | 11/04/14 15:38 | 11/06/14 19:27 | EPA 3050B | 97,6010C | MG |
| Chromium, Total | 25 | | mg/kg | 0.45 | -- | 1 | 11/04/14 15:38 | 11/06/14 19:27 | EPA 3050B | 97,6010C | MG |
| Lead, Total | 7.7 | | mg/kg | 2.2 | -- | 1 | 11/04/14 15:38 | 11/06/14 19:27 | EPA 3050B | 97,6010C | MG |
| Mercury, Total | ND | | mg/kg | 0.074 | -- | 1 | 11/04/14 08:30 | 11/04/14 13:41 | EPA 7471B | 97,7471B | MC |
| Selenium, Total | ND | | mg/kg | 2.2 | -- | 1 | 11/04/14 15:38 | 11/06/14 19:27 | EPA 3050B | 97,6010C | MG |
| Silver, Total | ND | | mg/kg | 0.45 | -- | 1 | 11/04/14 15:38 | 11/06/14 19:27 | EPA 3050B | 97,6010C | MG |



Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1426132**Project Number:** Not Specified**Report Date:** 11/10/14**SAMPLE RESULTS**

Lab ID: L1426132-05

Date Collected: 10/31/14 08:44

Client ID: CON-SOUTH

Date Received: 10/31/14

Sample Location: WORCESTER, MA

Field Prep: Not Specified

Matrix: Solid

Percent Solids: 96%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|------------------------------------|--------|-----------|-------|-------|-----|-----------------|----------------|----------------|-------------|-------------------|---------|
| MCP Total Metals - Westborough Lab | | | | | | | | | | | |
| Arsenic, Total | 8.4 | | mg/kg | 0.41 | -- | 1 | 11/04/14 15:38 | 11/06/14 19:30 | EPA 3050B | 97,6010C | MG |
| Barium, Total | 23 | | mg/kg | 0.41 | -- | 1 | 11/04/14 15:38 | 11/06/14 19:30 | EPA 3050B | 97,6010C | MG |
| Cadmium, Total | ND | | mg/kg | 0.41 | -- | 1 | 11/04/14 15:38 | 11/06/14 19:30 | EPA 3050B | 97,6010C | MG |
| Chromium, Total | 12 | | mg/kg | 0.41 | -- | 1 | 11/04/14 15:38 | 11/06/14 19:30 | EPA 3050B | 97,6010C | MG |
| Lead, Total | 8.3 | | mg/kg | 2.0 | -- | 1 | 11/04/14 15:38 | 11/06/14 19:30 | EPA 3050B | 97,6010C | MG |
| Mercury, Total | ND | | mg/kg | 0.086 | -- | 1 | 11/04/14 08:30 | 11/04/14 13:43 | EPA 7471B | 97,7471B | MC |
| Selenium, Total | ND | | mg/kg | 2.0 | -- | 1 | 11/04/14 15:38 | 11/06/14 19:30 | EPA 3050B | 97,6010C | MG |
| Silver, Total | ND | | mg/kg | 0.41 | -- | 1 | 11/04/14 15:38 | 11/06/14 19:30 | EPA 3050B | 97,6010C | MG |



Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1426132**Project Number:** Not Specified**Report Date:** 11/10/14**SAMPLE RESULTS**

Lab ID: L1426132-06

Date Collected: 10/31/14 09:43

Client ID: PE-11

Date Received: 10/31/14

Sample Location: WORCESTER, MA

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 89%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|------------------------------------|--------|-----------|-------|-------|-----|-----------------|----------------|----------------|-------------|-------------------|---------|
| MCP Total Metals - Westborough Lab | | | | | | | | | | | |
| Arsenic, Total | 25 | | mg/kg | 0.44 | -- | 1 | 11/04/14 15:38 | 11/06/14 19:50 | EPA 3050B | 97,6010C | MG |
| Barium, Total | 47 | | mg/kg | 0.44 | -- | 1 | 11/04/14 15:38 | 11/06/14 19:50 | EPA 3050B | 97,6010C | MG |
| Cadmium, Total | ND | | mg/kg | 0.44 | -- | 1 | 11/04/14 15:38 | 11/06/14 19:50 | EPA 3050B | 97,6010C | MG |
| Chromium, Total | 24 | | mg/kg | 0.44 | -- | 1 | 11/04/14 15:38 | 11/06/14 19:50 | EPA 3050B | 97,6010C | MG |
| Lead, Total | 6.3 | | mg/kg | 2.2 | -- | 1 | 11/04/14 15:38 | 11/06/14 19:50 | EPA 3050B | 97,6010C | MG |
| Mercury, Total | ND | | mg/kg | 0.074 | -- | 1 | 11/04/14 08:30 | 11/04/14 13:45 | EPA 7471B | 97,7471B | MC |
| Selenium, Total | ND | | mg/kg | 2.2 | -- | 1 | 11/04/14 15:38 | 11/06/14 19:50 | EPA 3050B | 97,6010C | MG |
| Silver, Total | ND | | mg/kg | 0.44 | -- | 1 | 11/04/14 15:38 | 11/06/14 19:50 | EPA 3050B | 97,6010C | MG |



Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1426132**Project Number:** Not Specified**Report Date:** 11/10/14**SAMPLE RESULTS****Lab ID:** L1426132-07**Date Collected:** 10/31/14 09:45**Client ID:** ONEIL CONDUIT**Date Received:** 10/31/14**Sample Location:** WORCESTER, MA**Field Prep:** Not Specified**Matrix:** Solid**Percent Solids:** 90%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|------------------------------------|--------|-----------|-------|-------|-----|-----------------|----------------|----------------|-------------|-------------------|---------|
| MCP Total Metals - Westborough Lab | | | | | | | | | | | |
| Arsenic, Total | 11 | | mg/kg | 0.43 | -- | 1 | 11/04/14 15:38 | 11/06/14 19:54 | EPA 3050B | 97,6010C | MG |
| Barium, Total | 43 | | mg/kg | 0.43 | -- | 1 | 11/04/14 15:38 | 11/06/14 19:54 | EPA 3050B | 97,6010C | MG |
| Cadmium, Total | ND | | mg/kg | 0.43 | -- | 1 | 11/04/14 15:38 | 11/06/14 19:54 | EPA 3050B | 97,6010C | MG |
| Chromium, Total | 15 | | mg/kg | 0.43 | -- | 1 | 11/04/14 15:38 | 11/06/14 19:54 | EPA 3050B | 97,6010C | MG |
| Lead, Total | 3.8 | | mg/kg | 2.1 | -- | 1 | 11/04/14 15:38 | 11/06/14 19:54 | EPA 3050B | 97,6010C | MG |
| Mercury, Total | ND | | mg/kg | 0.078 | -- | 1 | 11/04/14 08:30 | 11/04/14 12:16 | EPA 7471B | 97,7471B | MC |
| Selenium, Total | ND | | mg/kg | 2.1 | -- | 1 | 11/04/14 15:38 | 11/06/14 19:54 | EPA 3050B | 97,6010C | MG |
| Silver, Total | ND | | mg/kg | 0.43 | -- | 1 | 11/04/14 15:38 | 11/06/14 19:54 | EPA 3050B | 97,6010C | MG |



Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1426132**Project Number:** Not Specified**Report Date:** 11/10/14**SAMPLE RESULTS**

Lab ID: L1426132-08

Date Collected: 10/31/14 09:59

Client ID: PE-12

Date Received: 10/31/14

Sample Location: WORCESTER, MA

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 89%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|------------------------------------|--------|-----------|-------|-------|-----|-----------------|----------------|----------------|-------------|-------------------|---------|
| MCP Total Metals - Westborough Lab | | | | | | | | | | | |
| Arsenic, Total | 31 | | mg/kg | 0.44 | -- | 1 | 11/04/14 15:38 | 11/06/14 19:58 | EPA 3050B | 97,6010C | MG |
| Barium, Total | 34 | | mg/kg | 0.44 | -- | 1 | 11/04/14 15:38 | 11/06/14 19:58 | EPA 3050B | 97,6010C | MG |
| Cadmium, Total | ND | | mg/kg | 0.44 | -- | 1 | 11/04/14 15:38 | 11/06/14 19:58 | EPA 3050B | 97,6010C | MG |
| Chromium, Total | 19 | | mg/kg | 0.44 | -- | 1 | 11/04/14 15:38 | 11/06/14 19:58 | EPA 3050B | 97,6010C | MG |
| Lead, Total | 7.7 | | mg/kg | 2.2 | -- | 1 | 11/04/14 15:38 | 11/06/14 19:58 | EPA 3050B | 97,6010C | MG |
| Mercury, Total | ND | | mg/kg | 0.073 | -- | 1 | 11/04/14 08:30 | 11/04/14 12:18 | EPA 7471B | 97,7471B | MC |
| Selenium, Total | ND | | mg/kg | 2.2 | -- | 1 | 11/04/14 15:38 | 11/06/14 19:58 | EPA 3050B | 97,6010C | MG |
| Silver, Total | ND | | mg/kg | 0.44 | -- | 1 | 11/04/14 15:38 | 11/06/14 19:58 | EPA 3050B | 97,6010C | MG |



Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1426132**Project Number:** Not Specified**Report Date:** 11/10/14**SAMPLE RESULTS****Lab ID:** L1426132-09**Date Collected:** 10/31/14 10:02**Client ID:** PE-13**Date Received:** 10/31/14**Sample Location:** WORCESTER, MA**Field Prep:** Not Specified**Matrix:** Soil**Percent Solids:** 90%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|------------------------------------|--------|-----------|-------|-------|-----|-----------------|----------------|----------------|-------------|-------------------|---------|
| MCP Total Metals - Westborough Lab | | | | | | | | | | | |
| Arsenic, Total | 37 | | mg/kg | 0.43 | -- | 1 | 11/04/14 15:38 | 11/06/14 20:01 | EPA 3050B | 97,6010C | MG |
| Barium, Total | 41 | | mg/kg | 0.43 | -- | 1 | 11/04/14 15:38 | 11/06/14 20:01 | EPA 3050B | 97,6010C | MG |
| Cadmium, Total | ND | | mg/kg | 0.43 | -- | 1 | 11/04/14 15:38 | 11/06/14 20:01 | EPA 3050B | 97,6010C | MG |
| Chromium, Total | 24 | | mg/kg | 0.43 | -- | 1 | 11/04/14 15:38 | 11/06/14 20:01 | EPA 3050B | 97,6010C | MG |
| Lead, Total | 8.6 | | mg/kg | 2.1 | -- | 1 | 11/04/14 15:38 | 11/06/14 20:01 | EPA 3050B | 97,6010C | MG |
| Mercury, Total | ND | | mg/kg | 0.091 | -- | 1 | 11/04/14 08:30 | 11/04/14 12:20 | EPA 7471B | 97,7471B | MC |
| Selenium, Total | ND | | mg/kg | 2.1 | -- | 1 | 11/04/14 15:38 | 11/06/14 20:01 | EPA 3050B | 97,6010C | MG |
| Silver, Total | ND | | mg/kg | 0.43 | -- | 1 | 11/04/14 15:38 | 11/06/14 20:01 | EPA 3050B | 97,6010C | MG |



Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1426132**Project Number:** Not Specified**Report Date:** 11/10/14**SAMPLE RESULTS**

Lab ID: L1426132-10

Date Collected: 10/31/14 11:19

Client ID: PE-14

Date Received: 10/31/14

Sample Location: WORCESTER, MA

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 90%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|------------------------------------|--------|-----------|-------|-------|-----|-----------------|----------------|----------------|-------------|-------------------|---------|
| MCP Total Metals - Westborough Lab | | | | | | | | | | | |
| Arsenic, Total | 25 | | mg/kg | 0.43 | -- | 1 | 11/04/14 15:38 | 11/06/14 20:05 | EPA 3050B | 97,6010C | MG |
| Barium, Total | 52 | | mg/kg | 0.43 | -- | 1 | 11/04/14 15:38 | 11/06/14 20:05 | EPA 3050B | 97,6010C | MG |
| Cadmium, Total | ND | | mg/kg | 0.43 | -- | 1 | 11/04/14 15:38 | 11/06/14 20:05 | EPA 3050B | 97,6010C | MG |
| Chromium, Total | 27 | | mg/kg | 0.43 | -- | 1 | 11/04/14 15:38 | 11/06/14 20:05 | EPA 3050B | 97,6010C | MG |
| Lead, Total | 6.7 | | mg/kg | 2.2 | -- | 1 | 11/04/14 15:38 | 11/06/14 20:05 | EPA 3050B | 97,6010C | MG |
| Mercury, Total | ND | | mg/kg | 0.074 | -- | 1 | 11/04/14 08:30 | 11/04/14 14:19 | EPA 7471B | 97,7471B | MC |
| Selenium, Total | ND | | mg/kg | 2.2 | -- | 1 | 11/04/14 15:38 | 11/06/14 20:05 | EPA 3050B | 97,6010C | MG |
| Silver, Total | ND | | mg/kg | 0.43 | -- | 1 | 11/04/14 15:38 | 11/06/14 20:05 | EPA 3050B | 97,6010C | MG |



Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1426132**Project Number:** Not Specified**Report Date:** 11/10/14**SAMPLE RESULTS****Lab ID:** L1426132-11**Date Collected:** 10/31/14 11:22**Client ID:** PE-15**Date Received:** 10/31/14**Sample Location:** WORCESTER, MA**Field Prep:** Not Specified**Matrix:** Soil**Percent Solids:** 90%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|------------------------------------|--------|-----------|-------|-------|-----|-----------------|----------------|----------------|-------------|-------------------|---------|
| MCP Total Metals - Westborough Lab | | | | | | | | | | | |
| Arsenic, Total | 18 | | mg/kg | 0.43 | -- | 1 | 11/04/14 15:38 | 11/06/14 20:09 | EPA 3050B | 97,6010C | MG |
| Barium, Total | 37 | | mg/kg | 0.43 | -- | 1 | 11/04/14 15:38 | 11/06/14 20:09 | EPA 3050B | 97,6010C | MG |
| Cadmium, Total | ND | | mg/kg | 0.43 | -- | 1 | 11/04/14 15:38 | 11/06/14 20:09 | EPA 3050B | 97,6010C | MG |
| Chromium, Total | 20 | | mg/kg | 0.43 | -- | 1 | 11/04/14 15:38 | 11/06/14 20:09 | EPA 3050B | 97,6010C | MG |
| Lead, Total | 5.2 | | mg/kg | 2.1 | -- | 1 | 11/04/14 15:38 | 11/06/14 20:09 | EPA 3050B | 97,6010C | MG |
| Mercury, Total | ND | | mg/kg | 0.071 | -- | 1 | 11/04/14 08:30 | 11/04/14 14:21 | EPA 7471B | 97,7471B | MC |
| Selenium, Total | ND | | mg/kg | 2.1 | -- | 1 | 11/04/14 15:38 | 11/06/14 20:09 | EPA 3050B | 97,6010C | MG |
| Silver, Total | ND | | mg/kg | 0.43 | -- | 1 | 11/04/14 15:38 | 11/06/14 20:09 | EPA 3050B | 97,6010C | MG |



Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1426132**Project Number:** Not Specified**Report Date:** 11/10/14**SAMPLE RESULTS****Lab ID:** L1426132-12**Date Collected:** 10/31/14 11:23**Client ID:** CON-NORTH**Date Received:** 10/31/14**Sample Location:** WORCESTER, MA**Field Prep:** Not Specified**Matrix:** Solid**Percent Solids:** 93%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|------------------------------------|--------|-----------|-------|-------|-----|-----------------|----------------|----------------|-------------|-------------------|---------|
| MCP Total Metals - Westborough Lab | | | | | | | | | | | |
| Arsenic, Total | 9.3 | | mg/kg | 0.42 | -- | 1 | 11/04/14 15:38 | 11/06/14 20:13 | EPA 3050B | 97,6010C | MG |
| Barium, Total | 35 | | mg/kg | 0.42 | -- | 1 | 11/04/14 15:38 | 11/06/14 20:13 | EPA 3050B | 97,6010C | MG |
| Cadmium, Total | ND | | mg/kg | 0.42 | -- | 1 | 11/04/14 15:38 | 11/06/14 20:13 | EPA 3050B | 97,6010C | MG |
| Chromium, Total | 13 | | mg/kg | 0.42 | -- | 1 | 11/04/14 15:38 | 11/06/14 20:13 | EPA 3050B | 97,6010C | MG |
| Lead, Total | 2.9 | | mg/kg | 2.1 | -- | 1 | 11/04/14 15:38 | 11/06/14 20:13 | EPA 3050B | 97,6010C | MG |
| Mercury, Total | ND | | mg/kg | 0.074 | -- | 1 | 11/04/14 08:30 | 11/04/14 14:27 | EPA 7471B | 97,7471B | MC |
| Selenium, Total | ND | | mg/kg | 2.1 | -- | 1 | 11/04/14 15:38 | 11/06/14 20:13 | EPA 3050B | 97,6010C | MG |
| Silver, Total | ND | | mg/kg | 0.42 | -- | 1 | 11/04/14 15:38 | 11/06/14 20:13 | EPA 3050B | 97,6010C | MG |



Project Name: HOLY CROSS FIELDHOUSE

Lab Number: L1426132

Project Number: Not Specified

Report Date: 11/10/14

Method Blank Analysis Batch Quality Control

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|---|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| MCP Total Metals - Westborough Lab for sample(s): 07-09 Batch: WG736621-1 | | | | | | | | | | |
| Mercury, Total | ND | | mg/kg | 0.083 | -- | 1 | 11/04/14 08:30 | 11/04/14 12:01 | 97,7471B | MC |

Prep Information

Digestion Method: EPA 7471B

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|---|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| MCP Total Metals - Westborough Lab for sample(s): 01-06 Batch: WG736622-1 | | | | | | | | | | |
| Mercury, Total | ND | | mg/kg | 0.083 | -- | 1 | 11/04/14 08:30 | 11/04/14 12:50 | 97,7471B | MC |

Prep Information

Digestion Method: EPA 7471B

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|---|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| MCP Total Metals - Westborough Lab for sample(s): 10-12 Batch: WG737189-1 | | | | | | | | | | |
| Mercury, Total | ND | | mg/kg | 0.083 | -- | 1 | 11/04/14 08:30 | 11/04/14 14:13 | 97,7471B | MC |

Prep Information

Digestion Method: EPA 7471B

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|---|--------|-----------|-------|------|-----|--------------------|------------------|------------------|----------------------|---------|
| MCP Total Metals - Westborough Lab for sample(s): 01-12 Batch: WG737436-1 | | | | | | | | | | |
| Arsenic, Total | ND | | mg/kg | 0.40 | -- | 1 | 11/04/14 15:38 | 11/06/14 18:52 | 97,6010C | MG |
| Barium, Total | ND | | mg/kg | 0.40 | -- | 1 | 11/04/14 15:38 | 11/06/14 18:52 | 97,6010C | MG |
| Cadmium, Total | ND | | mg/kg | 0.40 | -- | 1 | 11/04/14 15:38 | 11/06/14 18:52 | 97,6010C | MG |
| Chromium, Total | ND | | mg/kg | 0.40 | -- | 1 | 11/04/14 15:38 | 11/06/14 18:52 | 97,6010C | MG |
| Lead, Total | ND | | mg/kg | 2.0 | -- | 1 | 11/04/14 15:38 | 11/06/14 18:52 | 97,6010C | MG |
| Selenium, Total | ND | | mg/kg | 2.0 | -- | 1 | 11/04/14 15:38 | 11/06/14 18:52 | 97,6010C | MG |



Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1426132**Project Number:** Not Specified**Report Date:** 11/10/14

Method Blank Analysis Batch Quality Control

| | | | | | | | | | |
|---------------|----|-------|------|----|---|----------------|----------------|----------|----|
| Silver, Total | ND | mg/kg | 0.40 | -- | 1 | 11/04/14 15:38 | 11/06/14 18:52 | 97,6010C | MG |
|---------------|----|-------|------|----|---|----------------|----------------|----------|----|

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: HOLY CROSS FIELDHOUSE

Project Number: Not Specified

Lab Number: L1426132

Report Date: 11/10/14

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|--|------------------|------|-------------------|------|---------------------|-----|------|------------|
| MCP Total Metals - Westborough Lab Associated sample(s): 07-09 Batch: WG736621-2 WG736621-3 SRM Lot Number: D083-540 | | | | | | | | |
| Mercury, Total | 122 | | 117 | | 75-126 | 4 | | 30 |
| MCP Total Metals - Westborough Lab Associated sample(s): 01-06 Batch: WG736622-2 WG736622-3 SRM Lot Number: D083-540 | | | | | | | | |
| Mercury, Total | 118 | | 117 | | 75-126 | 1 | | 30 |
| MCP Total Metals - Westborough Lab Associated sample(s): 10-12 Batch: WG737189-2 WG737189-3 SRM Lot Number: D083-540 | | | | | | | | |
| Mercury, Total | 110 | | 118 | | 75-126 | 7 | | 30 |
| MCP Total Metals - Westborough Lab Associated sample(s): 01-12 Batch: WG737436-2 WG737436-3 SRM Lot Number: D083-540 | | | | | | | | |
| Arsenic, Total | 98 | | 106 | | 78-122 | 8 | | 30 |
| Barium, Total | 84 | | 90 | | 82-117 | 7 | | 30 |
| Cadmium, Total | 98 | | 159 | Q | 82-118 | 47 | Q | 30 |
| Chromium, Total | 93 | | 98 | | 79-121 | 5 | | 30 |
| Lead, Total | 91 | | 94 | | 81-119 | 3 | | 30 |
| Selenium, Total | 96 | | 141 | Q | 78-123 | 38 | Q | 30 |
| Silver, Total | 96 | | 99 | | 74-125 | 3 | | 30 |

INORGANICS & MISCELLANEOUS

Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1426132
Report Date: 11/10/14

SAMPLE RESULTS

Lab ID: L1426132-01
Client ID: PE-07
Sample Location: WORCESTER, MA
Matrix: Soil

Date Collected: 10/30/14 15:16
Date Received: 10/31/14
Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Solids, Total | 86.4 | | % | 0.100 | NA | 1 | - | 10/31/14 21:19 | 30,2540G | RT |



Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1426132
Report Date: 11/10/14

SAMPLE RESULTS

Lab ID: L1426132-02
Client ID: PE-08
Sample Location: WORCESTER, MA
Matrix: Soil

Date Collected: 10/30/14 15:18
Date Received: 10/31/14
Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Solids, Total | 74.9 | | % | 0.100 | NA | 1 | - | 10/31/14 21:19 | 30,2540G | RT |



Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1426132**Project Number:** Not Specified**Report Date:** 11/10/14**SAMPLE RESULTS**

Lab ID: L1426132-03
Client ID: PE-09
Sample Location: WORCESTER, MA
Matrix: Soil

Date Collected: 10/30/14 15:20
Date Received: 10/31/14
Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Solids, Total | 86.1 | | % | 0.100 | NA | 1 | - | 10/31/14 21:19 | 30,2540G | RT |



Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1426132
Report Date: 11/10/14

SAMPLE RESULTS

Lab ID: L1426132-04
Client ID: PE-10
Sample Location: WORCESTER, MA
Matrix: Soil

Date Collected: 10/30/14 15:22
Date Received: 10/31/14
Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Solids, Total | 88.2 | | % | 0.100 | NA | 1 | - | 10/31/14 21:19 | 30,2540G | RT |



Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1426132
Report Date: 11/10/14

SAMPLE RESULTS

Lab ID: L1426132-05
Client ID: CON-SOUTH
Sample Location: WORCESTER, MA
Matrix: Solid

Date Collected: 10/31/14 08:44
Date Received: 10/31/14
Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Solids, Total | 96.0 | | % | 0.100 | NA | 1 | - | 10/31/14 21:19 | 30,2540G | RT |



Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1426132**Project Number:** Not Specified**Report Date:** 11/10/14**SAMPLE RESULTS**

Lab ID: L1426132-06
 Client ID: PE-11
 Sample Location: WORCESTER, MA
 Matrix: Soil

Date Collected: 10/31/14 09:43
 Date Received: 10/31/14
 Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Solids, Total | 89.4 | | % | 0.100 | NA | 1 | - | 10/31/14 21:19 | 30,2540G | RT |



Project Name: HOLY CROSS FIELDHOUSE**Project Number:** Not Specified**Lab Number:** L1426132**Report Date:** 11/10/14**SAMPLE RESULTS**

Lab ID: L1426132-07
Client ID: ONEIL CONDUIT
Sample Location: WORCESTER, MA
Matrix: Solid

Date Collected: 10/31/14 09:45
Date Received: 10/31/14
Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Solids, Total | 90.1 | | % | 0.100 | NA | 1 | - | 10/31/14 21:19 | 30,2540G | RT |



Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1426132
Report Date: 11/10/14

SAMPLE RESULTS

Lab ID: L1426132-08
Client ID: PE-12
Sample Location: WORCESTER, MA
Matrix: Soil

Date Collected: 10/31/14 09:59
Date Received: 10/31/14
Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Solids, Total | 89.3 | | % | 0.100 | NA | 1 | - | 10/31/14 21:19 | 30,2540G | RT |



Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1426132
Report Date: 11/10/14

SAMPLE RESULTS

Lab ID: L1426132-09
Client ID: PE-13
Sample Location: WORCESTER, MA
Matrix: Soil

Date Collected: 10/31/14 10:02
Date Received: 10/31/14
Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Solids, Total | 89.7 | | % | 0.100 | NA | 1 | - | 10/31/14 21:19 | 30,2540G | RT |



Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1426132**Project Number:** Not Specified**Report Date:** 11/10/14**SAMPLE RESULTS**

Lab ID: L1426132-10
Client ID: PE-14
Sample Location: WORCESTER, MA
Matrix: Soil

Date Collected: 10/31/14 11:19
Date Received: 10/31/14
Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Solids, Total | 89.5 | | % | 0.100 | NA | 1 | - | 10/31/14 21:19 | 30,2540G | RT |



Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1426132
Report Date: 11/10/14

SAMPLE RESULTS

Lab ID: L1426132-11
Client ID: PE-15
Sample Location: WORCESTER, MA
Matrix: Soil

Date Collected: 10/31/14 11:22
Date Received: 10/31/14
Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Solids, Total | 90.4 | | % | 0.100 | NA | 1 | - | 10/31/14 21:19 | 30,2540G | RT |



Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1426132**Project Number:** Not Specified**Report Date:** 11/10/14**SAMPLE RESULTS**

Lab ID: L1426132-12
Client ID: CON-NORTH
Sample Location: WORCESTER, MA
Matrix: Solid

Date Collected: 10/31/14 11:23
Date Received: 10/31/14
Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Solids, Total | 92.7 | | % | 0.100 | NA | 1 | - | 10/31/14 21:19 | 30,2540G | RT |



Lab Duplicate Analysis
Batch Quality Control**Project Name:** HOLY CROSS FIELDHOUSE**Project Number:** Not Specified**Lab Number:** L1426132**Report Date:** 11/10/14

| Parameter | Native Sample | Duplicate Sample | Units | RPD | Qual | RPD Limits |
|--|---------------|------------------|-------|-----|------|------------|
| General Chemistry - Westborough Lab Associated sample(s): 01-12 QC Batch ID: WG736574-1 QC Sample: L1426045-01 Client ID: DUP Sample | | | | | | |
| Solids, Total | 90.0 | 90.1 | % | 0 | | 20 |

Project Name: HOLY CROSS FIELDHOUSE**Project Number:** Not Specified**Lab Number:** L1426132**Report Date:** 11/10/14**Sample Receipt and Container Information**

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal**Cooler**

A Absent

Container Information

| Container ID | Container Type | Cooler | pH | Temp deg C | Pres | Seal | Analysis(*) |
|--------------|-------------------------|--------|-----|------------|------|--------|--|
| L1426132-01A | Amber 250ml unpreserved | A | N/A | 2.6 | Y | Absent | MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),TS(7),MCP-8082-10-3540C(365),MCP-AG-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180) |
| L1426132-02A | Amber 250ml unpreserved | A | N/A | 2.6 | Y | Absent | MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),TS(7),MCP-8082-10-3540C(365),MCP-AG-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180) |
| L1426132-03A | Amber 250ml unpreserved | A | N/A | 2.6 | Y | Absent | MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),TS(7),MCP-8082-10-3540C(365),MCP-AG-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180) |
| L1426132-04A | Amber 250ml unpreserved | A | N/A | 2.6 | Y | Absent | MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),TS(7),MCP-8082-10-3540C(365),MCP-AG-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180) |
| L1426132-05A | Amber 250ml unpreserved | A | N/A | 2.6 | Y | Absent | MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),TS(7),MCP-8082LL-CNCRT(365),MCP-AG-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180) |

*Values in parentheses indicate holding time in days



Project Name: HOLY CROSS FIELDHOUSE**Project Number:** Not Specified**Lab Number:** L1426132**Report Date:** 11/10/14**Container Information**

| Container ID | Container Type | Cooler | pH | Temp deg C | Pres | Seal | Analysis(*) |
|--------------|-------------------------|--------|-----|---------------|------|--------|--|
| L1426132-06A | Amber 250ml unpreserved | A | N/A | 2.6 | Y | Absent | MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),TS(7),MCP-8082-10-3540C(365),MCP-AG-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180) |
| L1426132-07A | Amber 250ml unpreserved | A | N/A | 2.6 | Y | Absent | MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),TS(7),MCP-8082LL-CNCRT(365),MCP-AG-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180) |
| L1426132-08A | Amber 250ml unpreserved | A | N/A | 2.6 | Y | Absent | MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),TS(7),MCP-8082-10-3540C(365),MCP-AG-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180) |
| L1426132-09A | Amber 250ml unpreserved | A | N/A | 2.6 | Y | Absent | MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),TS(7),MCP-8082-10-3540C(365),MCP-AG-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180) |
| L1426132-10A | Amber 250ml unpreserved | A | N/A | 2.6 | Y | Absent | MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),TS(7),MCP-8082-10-3540C(365),MCP-AG-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180) |
| L1426132-11A | Amber 250ml unpreserved | A | N/A | 2.6 | Y | Absent | MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),TS(7),MCP-8082-10-3540C(365),MCP-AG-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180) |

*Values in parentheses indicate holding time in days



Project Name: HOLY CROSS FIELDHOUSE**Project Number:** Not Specified**Lab Number:** L1426132**Report Date:** 11/10/14**Container Information**

| Container ID | Container Type | Cooler | pH | Temp deg C | Pres | Seal | Analysis(*) |
|--------------|-------------------------|--------|-----|---------------|------|--------|---|
| L1426132-12A | Amber 250ml unpreserved | A | N/A | 2.6 | Y | Absent | MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),TS(7),MCP-8082LL-CNCRT(365),MCP-AG-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180) |

Container Comments

L1426132-01A

L1426132-02A

L1426132-03A

L1426132-04A

L1426132-05A

L1426132-06A

L1426132-07A

L1426132-08A

L1426132-09A

L1426132-10A

L1426132-11A

L1426132-12A

*Values in parentheses indicate holding time in days



Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1426132**Project Number:** Not Specified**Report Date:** 11/10/14

GLOSSARY

Acronyms

| | |
|------|---|
| EDL | - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME). |
| EPA | - Environmental Protection Agency. |
| LCS | - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes. |
| LCSD | - Laboratory Control Sample Duplicate: Refer to LCS. |
| LFB | - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes. |
| MDL | - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. |
| MS | - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. |
| MSD | - Matrix Spike Sample Duplicate: Refer to MS. |
| NA | - Not Applicable. |
| NC | - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit. |
| NI | - Not Ignitable. |
| RL | - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable. |
| RPD | - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report. |
| SRM | - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples. |

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

Report Format: Data Usability Report



Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1426132**Project Number:** Not Specified**Report Date:** 11/10/14**Data Qualifiers**

- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the reporting limit (RL) for the sample.

Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1426132
Report Date: 11/10/14

REFERENCES

- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.
- 97 EPA Test Methods (SW-846) with QC Requirements & Performance Standards for the Analysis of EPA SW-846 Methods under the Massachusetts Contingency Plan, WSC-CAM-IIA, IIB, IIIA, IIIB, IIIC, IIID, VA, VB, VC, VIA, VIB, VIIIA and VIIIB, July 2010.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

Last revised April 15, 2014

The following analytes are not included in our NELAP Scope of Accreditation:

Westborough Facility

EPA 524.2: Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.

EPA 8260C: 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide), Methyl methacrylate, Azobenzene.

EPA 8330A/B: PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT.

EPA 8270D: 1-Methylnaphthalene, Dimethylnaphthalene, 1,4-Diphenylhydrazine.

EPA 625: 4-Chloroaniline, 4-Methylphenol.

SM4500: Soil: Total Phosphorus, TKN, NO₂, NO₃.

EPA 9071: Total Petroleum Hydrocarbons, Oil & Grease.

Mansfield Facility

EPA 8270D: Biphenyl.

EPA 2540D: TSS

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water

EPA 200.8: Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, Tl; **EPA 200.7:** Ba, Be, Ca, Cd, Cr, Cu, Na; **EPA 245.1:** Mercury;

EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**

EPA 332: Perchlorate.

Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.

Non-Potable Water

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, Tl, Zn;

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, Ti, Tl, V, Zn;

EPA 245.1, SM4500H-B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC,

SM426C, SM4500NH3-BH, EPA 350.1: Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO3-F,**

EPA 353.2: Nitrate-N, **SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4,**

SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.

EPA 624: Volatile Halocarbons & Aromatics,

EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF.

For a complete listing of analytes and methods, please contact your Alpha Project Manager.



CHAIN OF CUSTODY

PAGE 1 OF 2

WESTBORO, MA
TEL: 508-898-9220
FAX: 508-898-9193

MANSFIELD, MA
TEL: 508-822-9300
FAX: 508-822-3288

Project Information

Project Name: Holy Cross FieldhouseProject Location: Norchester MA

Project #:

Project Manager: Richard Gang

ALPHA Quote #:

Turn-Around Time

☒ Standard☐ RUSH (only confirmed if pre-approved!)

Date Due:

Time:

Client Information

Client: Cooperstown EnvironmentalAddress: 23 Main StAndover MA 01810Phone: 978-505-8227

Fax:

Email: richard@cooperstownenv.com☐ These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

If MS is required, indicate in Sample Specific Comments which samples and what tests MS to be performed.
(Note: All CAM methods for inorganic analyses require MS every 20 soil samples)

*** 3500B/3540C of SW-846 Detection limit <1ppm**

Date Rec'd in Lab: 10/31/14

ALPHA Job #:

L1426132

Report Information - Data Deliverables

☐ FAX☒ EMAIL☒ ADEX☐ Add'l Deliverables

Billing Information

☒ Same as Client info

PO #:

Regulatory Requirements/Report Limits

State /Fed Program MA MCP / EPA Criteria PCBs detection limit 1ppm

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO

☒ Yes ☐ No

Are MCP Analytical Methods Required?

☐ Yes ☒ No

Is Matrix Spike (MS) Required on this SDG? (If yes see note in Comments)

☐ Yes ☒ No

Are CT RCP (Reasonable Confidence Protocols) Required?

ANALYSIS
PCBs Soxhlet*
PCRA & Metals

SAMPLE HANDLING

Filtration _____

☐ Done☒ Not needed☐ Lab to do

Preservation

☐ Lab to do

(Please specify below)

Sample Specific Comments

TOTAL # BOTTLES

| ALPHA Lab ID (Lab Use Only) | Sample ID | Collection | | Sample Matrix | Sampler's Initials | | | | | | | | | | | Sample Specific Comments | |
|--------------------------------|---------------|------------|-------|--------------------------|--------------------|---|---|--|--|--|--|--|--|--|--|--------------------------|---|
| | | Date | Time | | | | | | | | | | | | | | |
| 20132-01 | PE-07 | 10/30/14 | 3:16 | SOIL | AN | X | X | | | | | | | | | | 1 |
| -02 | PE-08 | | 3:18 | | | X | X | | | | | | | | | | 1 |
| -03 | PE-09 | | 3:20 | | | X | X | | | | | | | | | | 1 |
| -04 | PE-10 | | 3:22 | | | X | X | | | | | | | | | | 1 |
| -05 | CON-SOUTH | 10/31/14 | 8:44 | CONCRETE PLASTIC PIPE | AN | X | X | | | | | | | | | | 1 |
| -06 | PE-11 | | 9:43 | SOIL | | X | X | | | | | | | | | | 1 |
| -07 | ONEIL CONDUIT | | 9:45 | CONCRETE PLASTIC CONDUIT | | X | X | | | | | | | | | | 1 |
| -08 | PE-12 | | 9:59 | SOIL | | X | X | | | | | | | | | | 1 |
| -09 | PE-13 | | 10:02 | SOIL | | X | X | | | | | | | | | | 1 |
| -10 | PE-14 | | 11:19 | SOIL | | X | X | | | | | | | | | | 1 |

PLEASE ANSWER QUESTIONS ABOVE!

Container Type

G G

Preservative

A A

IS YOUR PROJECT
MA MCP or CT RCP?

Relinquished By:

Aniel Newman
D. J. Sanyal

Date/Time

10/31/14

Received By:

Don K...

Date/Time

10/31/14 1317

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.



ANALYTICAL REPORT

| | |
|-----------------|---|
| Lab Number: | L1425946 |
| Client: | Cooperstown Environmental LLC 23 Main Street Andover, MA 01810-0814 |
| ATTN: | Richard Gang |
| Phone: | (978) 470-4755 |
| Project Name: | HOLY CROSS FIELDHOUSE |
| Project Number: | Not Specified |
| Report Date: | 11/07/14 |

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1425946
Report Date: 11/07/14

| Alpha Sample ID | Client ID | Matrix | Sample Location | Collection Date/Time | Receive Date |
|----------------------------|------------------|---------------|----------------------------|---------------------------------|---------------------|
| L1425946-01 | PE-01 | SOIL | WORCESTER, MA | 10/29/14 15:51 | 10/30/14 |
| L1425946-02 | PE-02 | SOIL | WORCESTER, MA | 10/29/14 17:12 | 10/30/14 |
| L1425946-03 | PE-03 | SOIL | WORCESTER, MA | 10/29/14 17:13 | 10/30/14 |
| L1425946-04 | PE-06 | SOIL | WORCESTER, MA | 10/30/14 10:57 | 10/30/14 |
| L1425946-05 | PE-05 | SOIL | WORCESTER, MA | 10/30/14 11:56 | 10/30/14 |
| L1425946-06 | PE-04 | SOIL | WORCESTER, MA | 10/29/14 11:57 | 10/30/14 |

Project Name: HOLY CROSS FIELDHOUSE

Lab Number: L1425946

Project Number: Not Specified

Report Date: 11/07/14

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

| | | |
|--|---|-----|
| An affirmative response to questions A through F is required for "Presumptive Certainty" status | | |
| A | Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times? | YES |
| B | Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed? | YES |
| C | Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances? | YES |
| D | Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?" | YES |
| E a. | VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). | N/A |
| E b. | APH and TO-15 Methods only: Was the complete analyte list reported for each method? | N/A |
| F | Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)? | YES |
| A response to questions G, H and I is required for "Presumptive Certainty" status | | |
| G | Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)? | YES |
| H | Were all QC performance standards specified in the CAM protocol(s) achieved? | NO |
| I | Were results reported for the complete analyte list specified in the selected CAM protocol(s)? | NO |
| For any questions answered "No", please refer to the case narrative section on the following page(s). | | |

Please note that sample matrix information is located in the Sample Results section of this report.



Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1425946
Report Date: 11/07/14

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1425946
Report Date: 11/07/14

Case Narrative (continued)

MCP Related Narratives

Sample Receipt

In reference to question H:

A Matrix Spike was not submitted for the analysis of Metals.

Metals

In reference to question I:

All samples were analyzed for a subset of MCP elements per the Chain of Custody.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:



Cristin Walker

Title: Technical Director/Representative

Date: 11/07/14

ORGANICS

PCBS

Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1425946
Report Date: 11/07/14

SAMPLE RESULTS

Lab ID: L1425946-01
Client ID: PE-01
Sample Location: WORCESTER, MA
Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 11/05/14 13:22
Analyst: TQ
Percent Solids: 85%

Date Collected: 10/29/14 15:51
Date Received: 10/30/14
Field Prep: Not Specified
Extraction Method: EPA 3540C
Extraction Date: 11/04/14 04:24
Cleanup Method: EPA 3665A
Cleanup Date: 11/05/14
Cleanup Method: EPA 3660B
Cleanup Date: 11/05/14

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|-------|------|-----|-----------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 37.8 | -- | 1 | A |
| Aroclor 1221 | ND | | ug/kg | 37.8 | -- | 1 | A |
| Aroclor 1232 | ND | | ug/kg | 37.8 | -- | 1 | A |
| Aroclor 1242 | ND | | ug/kg | 37.8 | -- | 1 | A |
| Aroclor 1248 | ND | | ug/kg | 37.8 | -- | 1 | A |
| Aroclor 1254 | ND | | ug/kg | 37.8 | -- | 1 | A |
| Aroclor 1260 | ND | | ug/kg | 37.8 | -- | 1 | B |
| Aroclor 1262 | ND | | ug/kg | 37.8 | -- | 1 | A |
| Aroclor 1268 | ND | | ug/kg | 37.8 | -- | 1 | A |
| PCBs, Total | ND | | ug/kg | 37.8 | -- | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 59 | | 30-150 | A |
| Decachlorobiphenyl | 76 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 83 | | 30-150 | B |
| Decachlorobiphenyl | 80 | | 30-150 | B |

Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1425946
Report Date: 11/07/14

SAMPLE RESULTS

Lab ID: L1425946-02
Client ID: PE-02
Sample Location: WORCESTER, MA
Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 11/05/14 13:35
Analyst: TQ
Percent Solids: 82%

Date Collected: 10/29/14 17:12
Date Received: 10/30/14
Field Prep: Not Specified
Extraction Method: EPA 3540C
Extraction Date: 11/04/14 04:24
Cleanup Method: EPA 3665A
Cleanup Date: 11/05/14
Cleanup Method: EPA 3660B
Cleanup Date: 11/05/14

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|-------|------|-----|-----------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 39.6 | -- | 1 | A |
| Aroclor 1221 | ND | | ug/kg | 39.6 | -- | 1 | A |
| Aroclor 1232 | ND | | ug/kg | 39.6 | -- | 1 | A |
| Aroclor 1242 | ND | | ug/kg | 39.6 | -- | 1 | A |
| Aroclor 1248 | ND | | ug/kg | 39.6 | -- | 1 | A |
| Aroclor 1254 | ND | | ug/kg | 39.6 | -- | 1 | A |
| Aroclor 1260 | ND | | ug/kg | 39.6 | -- | 1 | A |
| Aroclor 1262 | ND | | ug/kg | 39.6 | -- | 1 | A |
| Aroclor 1268 | ND | | ug/kg | 39.6 | -- | 1 | A |
| PCBs, Total | ND | | ug/kg | 39.6 | -- | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 73 | | 30-150 | A |
| Decachlorobiphenyl | 63 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 78 | | 30-150 | B |
| Decachlorobiphenyl | 61 | | 30-150 | B |

Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1425946
Report Date: 11/07/14

SAMPLE RESULTS

Lab ID: L1425946-03
Client ID: PE-03
Sample Location: WORCESTER, MA
Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 11/05/14 13:48
Analyst: TQ
Percent Solids: 85%

Date Collected: 10/29/14 17:13
Date Received: 10/30/14
Field Prep: Not Specified
Extraction Method: EPA 3540C
Extraction Date: 11/04/14 04:24
Cleanup Method: EPA 3665A
Cleanup Date: 11/05/14
Cleanup Method: EPA 3660B
Cleanup Date: 11/05/14

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|-------|------|-----|-----------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 37.9 | -- | 1 | A |
| Aroclor 1221 | ND | | ug/kg | 37.9 | -- | 1 | A |
| Aroclor 1232 | ND | | ug/kg | 37.9 | -- | 1 | A |
| Aroclor 1242 | ND | | ug/kg | 37.9 | -- | 1 | A |
| Aroclor 1248 | ND | | ug/kg | 37.9 | -- | 1 | A |
| Aroclor 1254 | ND | | ug/kg | 37.9 | -- | 1 | A |
| Aroclor 1260 | 340 | | ug/kg | 37.9 | -- | 1 | B |
| Aroclor 1262 | ND | | ug/kg | 37.9 | -- | 1 | A |
| Aroclor 1268 | ND | | ug/kg | 37.9 | -- | 1 | A |
| PCBs, Total | 340 | | ug/kg | 37.9 | -- | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 70 | | 30-150 | A |
| Decachlorobiphenyl | 62 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 76 | | 30-150 | B |
| Decachlorobiphenyl | 61 | | 30-150 | B |

Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1425946
Report Date: 11/07/14

SAMPLE RESULTS

Lab ID: L1425946-04
Client ID: PE-06
Sample Location: WORCESTER, MA
Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 11/05/14 14:02
Analyst: TQ
Percent Solids: 86%

Date Collected: 10/30/14 10:57
Date Received: 10/30/14
Field Prep: Not Specified
Extraction Method: EPA 3540C
Extraction Date: 11/04/14 04:24
Cleanup Method: EPA 3665A
Cleanup Date: 11/05/14
Cleanup Method: EPA 3660B
Cleanup Date: 11/05/14

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|-------|------|-----|-----------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 37.8 | -- | 1 | A |
| Aroclor 1221 | ND | | ug/kg | 37.8 | -- | 1 | A |
| Aroclor 1232 | ND | | ug/kg | 37.8 | -- | 1 | A |
| Aroclor 1242 | ND | | ug/kg | 37.8 | -- | 1 | A |
| Aroclor 1248 | ND | | ug/kg | 37.8 | -- | 1 | A |
| Aroclor 1254 | ND | | ug/kg | 37.8 | -- | 1 | A |
| Aroclor 1260 | ND | | ug/kg | 37.8 | -- | 1 | A |
| Aroclor 1262 | ND | | ug/kg | 37.8 | -- | 1 | A |
| Aroclor 1268 | ND | | ug/kg | 37.8 | -- | 1 | A |
| PCBs, Total | ND | | ug/kg | 37.8 | -- | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 79 | | 30-150 | A |
| Decachlorobiphenyl | 70 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 84 | | 30-150 | B |
| Decachlorobiphenyl | 70 | | 30-150 | B |

Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1425946
Report Date: 11/07/14

SAMPLE RESULTS

Lab ID: L1425946-05
Client ID: PE-05
Sample Location: WORCESTER, MA
Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 11/05/14 14:15
Analyst: TQ
Percent Solids: 86%

Date Collected: 10/30/14 11:56
Date Received: 10/30/14
Field Prep: Not Specified
Extraction Method: EPA 3540C
Extraction Date: 11/04/14 04:24
Cleanup Method: EPA 3665A
Cleanup Date: 11/05/14
Cleanup Method: EPA 3660B
Cleanup Date: 11/05/14

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|-------|------|-----|-----------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 36.4 | -- | 1 | A |
| Aroclor 1221 | ND | | ug/kg | 36.4 | -- | 1 | A |
| Aroclor 1232 | ND | | ug/kg | 36.4 | -- | 1 | A |
| Aroclor 1242 | ND | | ug/kg | 36.4 | -- | 1 | A |
| Aroclor 1248 | ND | | ug/kg | 36.4 | -- | 1 | A |
| Aroclor 1254 | ND | | ug/kg | 36.4 | -- | 1 | A |
| Aroclor 1260 | ND | | ug/kg | 36.4 | -- | 1 | A |
| Aroclor 1262 | ND | | ug/kg | 36.4 | -- | 1 | A |
| Aroclor 1268 | ND | | ug/kg | 36.4 | -- | 1 | A |
| PCBs, Total | ND | | ug/kg | 36.4 | -- | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 70 | | 30-150 | A |
| Decachlorobiphenyl | 54 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 72 | | 30-150 | B |
| Decachlorobiphenyl | 55 | | 30-150 | B |

Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1425946
Report Date: 11/07/14

SAMPLE RESULTS

Lab ID: L1425946-06
Client ID: PE-04
Sample Location: WORCESTER, MA
Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 11/05/14 14:29
Analyst: TQ
Percent Solids: 88%

Date Collected: 10/29/14 11:57
Date Received: 10/30/14
Field Prep: Not Specified
Extraction Method: EPA 3540C
Extraction Date: 11/04/14 04:24
Cleanup Method: EPA 3665A
Cleanup Date: 11/05/14
Cleanup Method: EPA 3660B
Cleanup Date: 11/05/14

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|-------|------|-----|-----------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 35.8 | -- | 1 | A |
| Aroclor 1221 | ND | | ug/kg | 35.8 | -- | 1 | A |
| Aroclor 1232 | ND | | ug/kg | 35.8 | -- | 1 | A |
| Aroclor 1242 | ND | | ug/kg | 35.8 | -- | 1 | A |
| Aroclor 1248 | ND | | ug/kg | 35.8 | -- | 1 | A |
| Aroclor 1254 | ND | | ug/kg | 35.8 | -- | 1 | A |
| Aroclor 1260 | ND | | ug/kg | 35.8 | -- | 1 | B |
| Aroclor 1262 | ND | | ug/kg | 35.8 | -- | 1 | A |
| Aroclor 1268 | ND | | ug/kg | 35.8 | -- | 1 | A |
| PCBs, Total | ND | | ug/kg | 35.8 | -- | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 73 | | 30-150 | A |
| Decachlorobiphenyl | 57 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 84 | | 30-150 | B |
| Decachlorobiphenyl | 61 | | 30-150 | B |

Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1425946**Project Number:** Not Specified**Report Date:** 11/07/14

Method Blank Analysis Batch Quality Control

Analytical Method: 97,8082A
 Analytical Date: 11/05/14 14:55
 Analyst: TQ

Extraction Method: EPA 3540C
 Extraction Date: 11/04/14 04:24
 Cleanup Method: EPA 3665A
 Cleanup Date: 11/05/14
 Cleanup Method: EPA 3660B
 Cleanup Date: 11/05/14

| Parameter | Result | Qualifier | Units | RL | MDL | Column |
|--|--------|-----------|-------|------|-----|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab for sample(s): 01-06 Batch: WG737196-1 | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 32.1 | -- | A |
| Aroclor 1221 | ND | | ug/kg | 32.1 | -- | A |
| Aroclor 1232 | ND | | ug/kg | 32.1 | -- | A |
| Aroclor 1242 | ND | | ug/kg | 32.1 | -- | A |
| Aroclor 1248 | ND | | ug/kg | 32.1 | -- | A |
| Aroclor 1254 | ND | | ug/kg | 32.1 | -- | A |
| Aroclor 1260 | ND | | ug/kg | 32.1 | -- | A |
| Aroclor 1262 | ND | | ug/kg | 32.1 | -- | A |
| Aroclor 1268 | ND | | ug/kg | 32.1 | -- | A |
| PCBs, Total | ND | | ug/kg | 32.1 | -- | A |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|-----------|-----------|------------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 71 | | 30-150 | A |
| Decachlorobiphenyl | 50 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 78 | | 30-150 | B |
| Decachlorobiphenyl | 64 | | 30-150 | B |

Lab Control Sample Analysis**Batch Quality Control****Project Name:** HOLY CROSS FIELDHOUSE**Project Number:** Not Specified**Lab Number:** L1425946**Report Date:** 11/07/14

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits | Column |
|--|--------------------------|-------------|---------------------------|-------------|-----------------------------|------------|-------------|-----------------------|---------------|
| MCP Polychlorinated Biphenyls - Westborough Lab Associated sample(s): 01-06 Batch: WG737196-2 WG737196-3 | | | | | | | | | |
| Aroclor 1016 | 80 | | 89 | | 40-140 | 11 | | 30 | A |
| Aroclor 1260 | 55 | | 62 | | 40-140 | 12 | | 30 | A |

| Surrogate | LCS %Recovery | Qual | LCSD %Recovery | Qual | Acceptance Criteria | Column |
|------------------------------|--------------------------|-------------|---------------------------|-------------|--------------------------------|---------------|
| 2,4,5,6-Tetrachloro-m-xylene | 77 | | 83 | | 30-150 | A |
| Decachlorobiphenyl | 54 | | 60 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 73 | | 83 | | 30-150 | B |
| Decachlorobiphenyl | 54 | | 60 | | 30-150 | B |

METALS

Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1425946**Project Number:** Not Specified**Report Date:** 11/07/14**SAMPLE RESULTS****Lab ID:** L1425946-01**Date Collected:** 10/29/14 15:51**Client ID:** PE-01**Date Received:** 10/30/14**Sample Location:** WORCESTER, MA**Field Prep:** Not Specified**Matrix:** Soil**Percent Solids:** 85%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|------------------------------------|--------|-----------|-------|-------|-----|-----------------|----------------|----------------|-------------|-------------------|---------|
| MCP Total Metals - Westborough Lab | | | | | | | | | | | |
| Arsenic, Total | 15 | | mg/kg | 0.44 | -- | 1 | 10/31/14 22:26 | 11/03/14 19:22 | EPA 3050B | 97,6010C | MG |
| Barium, Total | 56 | | mg/kg | 0.44 | -- | 1 | 10/31/14 22:26 | 11/03/14 19:22 | EPA 3050B | 97,6010C | MG |
| Cadmium, Total | ND | | mg/kg | 0.44 | -- | 1 | 10/31/14 22:26 | 11/03/14 19:22 | EPA 3050B | 97,6010C | MG |
| Chromium, Total | 28 | | mg/kg | 0.44 | -- | 1 | 10/31/14 22:26 | 11/03/14 19:22 | EPA 3050B | 97,6010C | MG |
| Lead, Total | 14 | | mg/kg | 2.2 | -- | 1 | 10/31/14 22:26 | 11/03/14 19:22 | EPA 3050B | 97,6010C | MG |
| Mercury, Total | ND | | mg/kg | 0.081 | -- | 1 | 11/04/14 08:30 | 11/04/14 13:06 | EPA 7471B | 97,7471B | MC |
| Selenium, Total | ND | | mg/kg | 2.2 | -- | 1 | 10/31/14 22:26 | 11/03/14 19:22 | EPA 3050B | 97,6010C | MG |
| Silver, Total | ND | | mg/kg | 0.44 | -- | 1 | 10/31/14 22:26 | 11/03/14 19:22 | EPA 3050B | 97,6010C | MG |



Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1425946**Project Number:** Not Specified**Report Date:** 11/07/14**SAMPLE RESULTS****Lab ID:** L1425946-02**Date Collected:** 10/29/14 17:12**Client ID:** PE-02**Date Received:** 10/30/14**Sample Location:** WORCESTER, MA**Field Prep:** Not Specified**Matrix:** Soil**Percent Solids:** 82%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|------------------------------------|--------|-----------|-------|-------|-----|-----------------|----------------|----------------|-------------|-------------------|---------|
| MCP Total Metals - Westborough Lab | | | | | | | | | | | |
| Arsenic, Total | 15 | | mg/kg | 0.48 | -- | 1 | 10/31/14 22:26 | 11/03/14 19:26 | EPA 3050B | 97,6010C | MG |
| Barium, Total | 42 | | mg/kg | 0.48 | -- | 1 | 10/31/14 22:26 | 11/03/14 19:26 | EPA 3050B | 97,6010C | MG |
| Cadmium, Total | ND | | mg/kg | 0.48 | -- | 1 | 10/31/14 22:26 | 11/03/14 19:26 | EPA 3050B | 97,6010C | MG |
| Chromium, Total | 26 | | mg/kg | 0.48 | -- | 1 | 10/31/14 22:26 | 11/03/14 19:26 | EPA 3050B | 97,6010C | MG |
| Lead, Total | 10 | | mg/kg | 2.4 | -- | 1 | 10/31/14 22:26 | 11/03/14 19:26 | EPA 3050B | 97,6010C | MG |
| Mercury, Total | ND | | mg/kg | 0.091 | -- | 1 | 11/04/14 08:30 | 11/04/14 13:08 | EPA 7471B | 97,7471B | MC |
| Selenium, Total | ND | | mg/kg | 2.4 | -- | 1 | 10/31/14 22:26 | 11/03/14 19:26 | EPA 3050B | 97,6010C | MG |
| Silver, Total | ND | | mg/kg | 0.48 | -- | 1 | 10/31/14 22:26 | 11/03/14 19:26 | EPA 3050B | 97,6010C | MG |



Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1425946**Project Number:** Not Specified**Report Date:** 11/07/14**SAMPLE RESULTS****Lab ID:** L1425946-03**Date Collected:** 10/29/14 17:13**Client ID:** PE-03**Date Received:** 10/30/14**Sample Location:** WORCESTER, MA**Field Prep:** Not Specified**Matrix:** Soil**Percent Solids:** 85%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|------------------------------------|--------|-----------|-------|-------|-----|-----------------|----------------|----------------|-------------|-------------------|---------|
| MCP Total Metals - Westborough Lab | | | | | | | | | | | |
| Arsenic, Total | 16 | | mg/kg | 0.46 | -- | 1 | 10/31/14 22:26 | 11/03/14 19:30 | EPA 3050B | 97,6010C | MG |
| Barium, Total | 31 | | mg/kg | 0.46 | -- | 1 | 10/31/14 22:26 | 11/03/14 19:30 | EPA 3050B | 97,6010C | MG |
| Cadmium, Total | ND | | mg/kg | 0.46 | -- | 1 | 10/31/14 22:26 | 11/03/14 19:30 | EPA 3050B | 97,6010C | MG |
| Chromium, Total | 26 | | mg/kg | 0.46 | -- | 1 | 10/31/14 22:26 | 11/03/14 19:30 | EPA 3050B | 97,6010C | MG |
| Lead, Total | 13 | | mg/kg | 2.3 | -- | 1 | 10/31/14 22:26 | 11/03/14 19:30 | EPA 3050B | 97,6010C | MG |
| Mercury, Total | ND | | mg/kg | 0.095 | -- | 1 | 11/04/14 08:30 | 11/04/14 13:10 | EPA 7471B | 97,7471B | MC |
| Selenium, Total | ND | | mg/kg | 2.3 | -- | 1 | 10/31/14 22:26 | 11/03/14 19:30 | EPA 3050B | 97,6010C | MG |
| Silver, Total | ND | | mg/kg | 0.46 | -- | 1 | 10/31/14 22:26 | 11/03/14 19:30 | EPA 3050B | 97,6010C | MG |



Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1425946**Project Number:** Not Specified**Report Date:** 11/07/14**SAMPLE RESULTS**

Lab ID: L1425946-04

Date Collected: 10/30/14 10:57

Client ID: PE-06

Date Received: 10/30/14

Sample Location: WORCESTER, MA

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 86%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|------------------------------------|--------|-----------|-------|-------|-----|-----------------|----------------|----------------|-------------|-------------------|---------|
| MCP Total Metals - Westborough Lab | | | | | | | | | | | |
| Arsenic, Total | 16 | | mg/kg | 0.44 | -- | 1 | 10/31/14 22:26 | 11/03/14 19:33 | EPA 3050B | 97,6010C | MG |
| Barium, Total | 21 | | mg/kg | 0.44 | -- | 1 | 10/31/14 22:26 | 11/03/14 19:33 | EPA 3050B | 97,6010C | MG |
| Cadmium, Total | ND | | mg/kg | 0.44 | -- | 1 | 10/31/14 22:26 | 11/03/14 19:33 | EPA 3050B | 97,6010C | MG |
| Chromium, Total | 20 | | mg/kg | 0.44 | -- | 1 | 10/31/14 22:26 | 11/03/14 19:33 | EPA 3050B | 97,6010C | MG |
| Lead, Total | 5.6 | | mg/kg | 2.2 | -- | 1 | 10/31/14 22:26 | 11/03/14 19:33 | EPA 3050B | 97,6010C | MG |
| Mercury, Total | ND | | mg/kg | 0.079 | -- | 1 | 11/04/14 08:30 | 11/04/14 13:12 | EPA 7471B | 97,7471B | MC |
| Selenium, Total | ND | | mg/kg | 2.2 | -- | 1 | 10/31/14 22:26 | 11/03/14 19:33 | EPA 3050B | 97,6010C | MG |
| Silver, Total | ND | | mg/kg | 0.44 | -- | 1 | 10/31/14 22:26 | 11/03/14 19:33 | EPA 3050B | 97,6010C | MG |



Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1425946**Project Number:** Not Specified**Report Date:** 11/07/14**SAMPLE RESULTS**

Lab ID: L1425946-05

Date Collected: 10/30/14 11:56

Client ID: PE-05

Date Received: 10/30/14

Sample Location: WORCESTER, MA

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 86%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|-----------|--------|-----------|-------|----|-----|-----------------|---------------|---------------|-------------|-------------------|---------|
|-----------|--------|-----------|-------|----|-----|-----------------|---------------|---------------|-------------|-------------------|---------|

MCP Total Metals - Westborough Lab

| | | | | | | | | | | | |
|-----------------|-----|--|-------|-------|----|---|----------------|----------------|-----------|----------|----|
| Arsenic, Total | 11 | | mg/kg | 0.46 | -- | 1 | 10/31/14 22:26 | 11/03/14 19:37 | EPA 3050B | 97,6010C | MG |
| Barium, Total | 29 | | mg/kg | 0.46 | -- | 1 | 10/31/14 22:26 | 11/03/14 19:37 | EPA 3050B | 97,6010C | MG |
| Cadmium, Total | ND | | mg/kg | 0.46 | -- | 1 | 10/31/14 22:26 | 11/03/14 19:37 | EPA 3050B | 97,6010C | MG |
| Chromium, Total | 17 | | mg/kg | 0.46 | -- | 1 | 10/31/14 22:26 | 11/03/14 19:37 | EPA 3050B | 97,6010C | MG |
| Lead, Total | 5.1 | | mg/kg | 2.3 | -- | 1 | 10/31/14 22:26 | 11/03/14 19:37 | EPA 3050B | 97,6010C | MG |
| Mercury, Total | ND | | mg/kg | 0.088 | -- | 1 | 11/04/14 08:30 | 11/04/14 13:14 | EPA 7471B | 97,7471B | MC |
| Selenium, Total | ND | | mg/kg | 2.3 | -- | 1 | 10/31/14 22:26 | 11/03/14 19:37 | EPA 3050B | 97,6010C | MG |
| Silver, Total | ND | | mg/kg | 0.46 | -- | 1 | 10/31/14 22:26 | 11/03/14 19:37 | EPA 3050B | 97,6010C | MG |



Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1425946**Project Number:** Not Specified**Report Date:** 11/07/14**SAMPLE RESULTS**

Lab ID: L1425946-06

Date Collected: 10/29/14 11:57

Client ID: PE-04

Date Received: 10/30/14

Sample Location: WORCESTER, MA

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 88%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|------------------------------------|--------|-----------|-------|-------|-----|-----------------|----------------|----------------|-------------|-------------------|---------|
| MCP Total Metals - Westborough Lab | | | | | | | | | | | |
| Arsenic, Total | 12 | | mg/kg | 0.44 | -- | 1 | 10/31/14 22:26 | 11/03/14 19:49 | EPA 3050B | 97,6010C | MG |
| Barium, Total | 25 | | mg/kg | 0.44 | -- | 1 | 10/31/14 22:26 | 11/03/14 19:49 | EPA 3050B | 97,6010C | MG |
| Cadmium, Total | ND | | mg/kg | 0.44 | -- | 1 | 10/31/14 22:26 | 11/03/14 19:49 | EPA 3050B | 97,6010C | MG |
| Chromium, Total | 16 | | mg/kg | 0.44 | -- | 1 | 10/31/14 22:26 | 11/03/14 19:49 | EPA 3050B | 97,6010C | MG |
| Lead, Total | 5.0 | | mg/kg | 2.2 | -- | 1 | 10/31/14 22:26 | 11/03/14 19:49 | EPA 3050B | 97,6010C | MG |
| Mercury, Total | ND | | mg/kg | 0.092 | -- | 1 | 11/04/14 08:30 | 11/04/14 13:19 | EPA 7471B | 97,7471B | MC |
| Selenium, Total | ND | | mg/kg | 2.2 | -- | 1 | 10/31/14 22:26 | 11/03/14 19:49 | EPA 3050B | 97,6010C | MG |
| Silver, Total | ND | | mg/kg | 0.44 | -- | 1 | 10/31/14 22:26 | 11/03/14 19:49 | EPA 3050B | 97,6010C | MG |



Project Name: HOLY CROSS FIELDHOUSE

Lab Number: L1425946

Project Number: Not Specified

Report Date: 11/07/14

Method Blank Analysis Batch Quality Control

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|---|--------|-----------|-------|------|-----|--------------------|------------------|------------------|----------------------|---------|
| MCP Total Metals - Westborough Lab for sample(s): 01-06 Batch: WG736576-1 | | | | | | | | | | |
| Arsenic, Total | ND | | mg/kg | 0.40 | -- | 1 | 10/31/14 22:26 | 11/03/14 18:17 | 97,6010C | MG |
| Barium, Total | ND | | mg/kg | 0.40 | -- | 1 | 10/31/14 22:26 | 11/03/14 18:17 | 97,6010C | MG |
| Cadmium, Total | ND | | mg/kg | 0.40 | -- | 1 | 10/31/14 22:26 | 11/03/14 18:17 | 97,6010C | MG |
| Chromium, Total | ND | | mg/kg | 0.40 | -- | 1 | 10/31/14 22:26 | 11/03/14 18:17 | 97,6010C | MG |
| Lead, Total | ND | | mg/kg | 2.0 | -- | 1 | 10/31/14 22:26 | 11/03/14 18:17 | 97,6010C | MG |
| Selenium, Total | ND | | mg/kg | 2.0 | -- | 1 | 10/31/14 22:26 | 11/03/14 18:17 | 97,6010C | MG |
| Silver, Total | ND | | mg/kg | 0.40 | -- | 1 | 10/31/14 22:26 | 11/03/14 18:17 | 97,6010C | MG |

Prep Information

Digestion Method: EPA 3050B

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|---|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| MCP Total Metals - Westborough Lab for sample(s): 01-06 Batch: WG736622-1 | | | | | | | | | | |
| Mercury, Total | ND | | mg/kg | 0.083 | -- | 1 | 11/04/14 08:30 | 11/04/14 12:50 | 97,7471B | MC |

Prep Information

Digestion Method: EPA 7471B



Lab Control Sample Analysis**Batch Quality Control****Project Name:** HOLY CROSS FIELDHOUSE**Lab Number:** L1425946**Project Number:** Not Specified**Report Date:** 11/07/14

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|--|------------------|------|-------------------|------|---------------------|-----|------|------------|
| MCP Total Metals - Westborough Lab Associated sample(s): 01-06 Batch: WG736576-2 WG736576-3 SRM Lot Number: D083-540 | | | | | | | | |
| Arsenic, Total | 106 | | 98 | | 78-122 | 8 | | 30 |
| Barium, Total | 102 | | 96 | | 82-117 | 6 | | 30 |
| Cadmium, Total | 110 | | 99 | | 82-118 | 11 | | 30 |
| Chromium, Total | 108 | | 98 | | 79-121 | 10 | | 30 |
| Lead, Total | 104 | | 96 | | 81-119 | 8 | | 30 |
| Selenium, Total | 115 | | 102 | | 78-123 | 12 | | 30 |
| Silver, Total | 114 | | 99 | | 74-125 | 14 | | 30 |

| | | | | | | | | |
|--|-----|--|-----|--|--------|---|--|----|
| MCP Total Metals - Westborough Lab Associated sample(s): 01-06 Batch: WG736622-2 WG736622-3 SRM Lot Number: D083-540 | | | | | | | | |
| Mercury, Total | 118 | | 117 | | 75-126 | 1 | | 30 |

INORGANICS & MISCELLANEOUS

Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1425946
Report Date: 11/07/14

SAMPLE RESULTS

Lab ID: L1425946-01
Client ID: PE-01
Sample Location: WORCESTER, MA
Matrix: Soil

Date Collected: 10/29/14 15:51
Date Received: 10/30/14
Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Solids, Total | 85.4 | | % | 0.100 | NA | 1 | - | 10/31/14 20:28 | 30,2540G | RT |



Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1425946
Report Date: 11/07/14

SAMPLE RESULTS

Lab ID: L1425946-02
Client ID: PE-02
Sample Location: WORCESTER, MA
Matrix: Soil

Date Collected: 10/29/14 17:12
Date Received: 10/30/14
Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Solids, Total | 81.5 | | % | 0.100 | NA | 1 | - | 10/31/14 20:28 | 30,2540G | RT |



Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1425946
Report Date: 11/07/14

SAMPLE RESULTS

Lab ID: L1425946-03
Client ID: PE-03
Sample Location: WORCESTER, MA
Matrix: Soil

Date Collected: 10/29/14 17:13
Date Received: 10/30/14
Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Solids, Total | 85.0 | | % | 0.100 | NA | 1 | - | 10/31/14 20:28 | 30,2540G | RT |



Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1425946
Report Date: 11/07/14

SAMPLE RESULTS

Lab ID: L1425946-04
Client ID: PE-06
Sample Location: WORCESTER, MA
Matrix: Soil

Date Collected: 10/30/14 10:57
Date Received: 10/30/14
Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Solids, Total | 85.5 | | % | 0.100 | NA | 1 | - | 10/31/14 20:28 | 30,2540G | RT |



Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1425946
Report Date: 11/07/14

SAMPLE RESULTS

Lab ID: L1425946-05
Client ID: PE-05
Sample Location: WORCESTER, MA
Matrix: Soil

Date Collected: 10/30/14 11:56
Date Received: 10/30/14
Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Solids, Total | 86.4 | | % | 0.100 | NA | 1 | - | 10/31/14 20:28 | 30,2540G | RT |



Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1425946
Report Date: 11/07/14

SAMPLE RESULTS

Lab ID: L1425946-06
Client ID: PE-04
Sample Location: WORCESTER, MA
Matrix: Soil

Date Collected: 10/29/14 11:57
Date Received: 10/30/14
Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Solids, Total | 88.4 | | % | 0.100 | NA | 1 | - | 10/31/14 20:28 | 30,2540G | RT |



Lab Duplicate Analysis

Batch Quality Control

Project Name: HOLY CROSS FIELDHOUSE

Project Number: Not Specified

Lab Number: L1425946

Report Date: 11/07/14

| Parameter | Native Sample | Duplicate Sample | Units | RPD | Qual | RPD Limits |
|--|---------------|------------------|-------|-----|------|------------|
| General Chemistry - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG736571-1 QC Sample: L1424503-03 Client ID: DUP Sample | | | | | | |
| Solids, Total | 88.9 | 88.8 | % | 0 | | 20 |

Project Name: HOLY CROSS FIELDHOUSE**Project Number:** Not Specified**Lab Number:** L1425946**Report Date:** 11/07/14**Sample Receipt and Container Information**

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal**Cooler**

A Absent

Container Information

| Container ID | Container Type | Cooler | pH | Temp deg C | Pres | Seal | Analysis(*) |
|--------------|-----------------------------|--------|-----|------------|------|--------|--|
| L1425946-01A | Glass 250ml/8oz unpreserved | A | N/A | 2.2 | Y | Absent | MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),TS(7),MCP-8082-10-3540C(365),MCP-AG-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180) |
| L1425946-02A | Glass 250ml/8oz unpreserved | A | N/A | 2.2 | Y | Absent | MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),TS(7),MCP-8082-10-3540C(365),MCP-AG-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180) |
| L1425946-03A | Glass 250ml/8oz unpreserved | A | N/A | 2.2 | Y | Absent | MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),TS(7),MCP-8082-10-3540C(365),MCP-AG-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180) |
| L1425946-04A | Glass 250ml/8oz unpreserved | A | N/A | 2.2 | Y | Absent | MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),TS(7),MCP-8082-10-3540C(365),MCP-AG-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180) |
| L1425946-05A | Glass 250ml/8oz unpreserved | A | N/A | 2.2 | Y | Absent | MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),TS(7),MCP-8082-10-3540C(365),MCP-AG-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180) |

*Values in parentheses indicate holding time in days



Project Name: HOLY CROSS FIELDHOUSE**Project Number:** Not Specified**Lab Number:** L1425946**Report Date:** 11/07/14**Container Information**

| Container ID | Container Type | Cooler | pH | Temp deg C | Pres | Seal |
|--------------|-----------------------------|--------|-----|---------------|------|--------|
| L1425946-06A | Glass 250ml/8oz unpreserved | A | N/A | 2.2 | Y | Absent |

Analysis(*)

MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),TS(7),MCP-8082-10-3540C(365),MCP-AG-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180)

*Values in parentheses indicate holding time in days



Project Name: HOLY CROSS FIELDHOUSE**Lab Number:** L1425946**Project Number:** Not Specified**Report Date:** 11/07/14

GLOSSARY

Acronyms

| | |
|------|---|
| EDL | - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME). |
| EPA | - Environmental Protection Agency. |
| LCS | - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes. |
| LCSD | - Laboratory Control Sample Duplicate: Refer to LCS. |
| LFB | - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes. |
| MDL | - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. |
| MS | - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. |
| MSD | - Matrix Spike Sample Duplicate: Refer to MS. |
| NA | - Not Applicable. |
| NC | - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit. |
| NI | - Not Ignitable. |
| RL | - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable. |
| RPD | - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report. |
| SRM | - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples. |

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

Report Format: Data Usability Report



Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1425946
Report Date: 11/07/14

Data Qualifiers

- G** - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the reporting limit (RL) for the sample.

Project Name: HOLY CROSS FIELDHOUSE
Project Number: Not Specified

Lab Number: L1425946
Report Date: 11/07/14

REFERENCES

- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.
- 97 EPA Test Methods (SW-846) with QC Requirements & Performance Standards for the Analysis of EPA SW-846 Methods under the Massachusetts Contingency Plan, WSC-CAM-IIA, IIB, IIIA, IIIB, IIIC, IIID, VA, VB, VC, VIA, VIB, VIIIA and VIIIB, July 2010.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

Last revised April 15, 2014

The following analytes are not included in our NELAP Scope of Accreditation:

Westborough Facility

EPA 524.2: Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.

EPA 8260C: 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide), Methyl methacrylate, Azobenzene.

EPA 8330A/B: PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT.

EPA 8270D: 1-Methylnaphthalene, Dimethylnaphthalene, 1,4-Diphenylhydrazine.

EPA 625: 4-Chloroaniline, 4-Methylphenol.

SM4500: Soil: Total Phosphorus, TKN, NO₂, NO₃.

EPA 9071: Total Petroleum Hydrocarbons, Oil & Grease.

Mansfield Facility

EPA 8270D: Biphenyl.

EPA 2540D: TSS

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water

EPA 200.8: Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, Tl; **EPA 200.7:** Ba, Be, Ca, Cd, Cr, Cu, Na; **EPA 245.1:** Mercury;

EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO₃-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**

EPA 332: Perchlorate.

Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.

Non-Potable Water

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, Tl, Zn;

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, Ti, Tl, V, Zn;

EPA 245.1, SM4500H-B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC,

SM426C, SM4500NH₃-BH, EPA 350.1: Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO₃-F,**

EPA 353.2: Nitrate-N, **SM4500NH₃-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4,**

SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.

EPA 624: Volatile Halocarbons & Aromatics,

EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF.

For a complete listing of analytes and methods, please contact your Alpha Project Manager.



WESTBORO, MA
TEL: 508-898-9220
FAX: 508-898-9193

MANSFIELD, MA
TEL: 508-822-9300
FAX: 508-822-3288

CHAIN OF CUSTODY

PAGE 1 OF 1

Project Information

Project Name: Holy Cross FieldhouseProject Location: Worcester MA

Project #:

Project Manager: Richard Gang

ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: 11/7/14 Time:Date Rec'd in Lab: 10/30/14

Report Information - Data Deliverables

☐ FAX ☒ EMAIL
☒ ADEx ☐ Add'l Deliverables
ALPHA Job #: L1425946

Billing Information

☒ Same as Client info PO #:

Client Information

Client: Cooperstown EnvAddress: 23 Main StAndover MA 01810Phone: 978-470-4755

Fax:

Email: richard@cooperstownenv.com
☐ These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

If MS is required, indicate in Sample Specific Comments which samples and what tests MS to be performed.
(Note: All CAM methods for inorganic analyses require MS every 20 soil samples)

CALL W/ ANY QUESTIONS

Regulatory Requirements/Report Limits

State /Fed Program MA MCP /EPA Criteria PCBs detect. limit < 1 ppm

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO

☒ Yes ☐ No Are MCP Analytical Methods Required?
☐ Yes ☐ No Is Matrix Spike (MS) Required on this SDG? (If yes see note in Comments)
☐ Yes ☒ No Are CT RCP (Reasonable Confidence Protocols) Required?

| ANALYSIS | | | | | | | | | | SAMPLE HANDLING | | | | | | | | | | TOTAL # BOTTLES |
|---------------------------------|--|--|--|--|--|--|--|--|--|---|--|--|--|--|--|--|--|--|--|-----------------|
| PCBs Soxhlet * RCRA & METALS | | | | | | | | | | * 3500B/3540C of SN-846 Detection limit < 1 ppm | | | | | | | | | | |
| | | | | | | | | | | Filtration _____ <input type="checkbox"/> Done <input checked="" type="checkbox"/> Not needed <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please specify below) | | | | | | | | | | |
| | | | | | | | | | | Sample Specific Comments | | | | | | | | | | |

| ALPHA Lab ID (Lab Use Only) | Sample ID | Collection | | Sample Matrix | Sampler's Initials | | | | | | | | | | | |
|--------------------------------|-----------|------------|--------|---------------|--------------------|---|---|--|--|--|--|--|--|--|--|---|
| | | Date | Time | | | | | | | | | | | | | |
| 25946-01 | PE-01 | 10/29/14 | 3:51 P | Soil | AN | X | X | | | | | | | | | 1 |
| 02 | PE-02 | ↓ | 5:12 P | ↓ | ↓ | X | X | | | | | | | | | 1 |
| 03 | PE-03 | ↓ | 5:13 P | ↓ | ↓ | X | X | | | | | | | | | 1 |
| 04 | PE-06 | 10/30/14 | 10:57 | Soil | AN | X | X | | | | | | | | | |
| 05 | PE-05 | ↓ | 11:56 | ↓ | ↓ | X | X | | | | | | | | | |
| 06 | PE-04 | ↓ | 11:57 | ↓ | ↓ | X | X | | | | | | | | | |
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PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT
MA MCP or CT RCP?

FORM NO: 01-01 (rev. 18-Jan-2010)

Relinquished By:

Amel Newman
1/5/14

Container Type G GPreservative A A

Date/Time

10/30/14 12:27
10/30/14 12:27

Received By:

1454
Willie McQueen

Date/Time

10/30/14 12:27
10/30/14 12:27

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.